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# THE SENTINEL BRIGHT COST MODELS PROGRAM

By C. M. COLECCHI

**JANUARY 1984** 

Prepared for

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#### SECTION 1

#### INTRODUCTION

### 1.1 GENERAL

In order to estimate budgets for various programs, three cost models—the OASIS model, the Air Force Model, and the TERCON Model—have been developed. The OASIS Model cost elements are based on past experience with the OASIS Program. An "ESD Cost Factor Study" performed by ESD/AC and published in March of 1978 provides the criteria upon which the Air Force Model is based. The TERCON Model was used by MITRE to prepare budget cost estimates for the Semiautomated Terminal Control Center for the COMBAT GRANDE II Program.

Each of these models requires a cost estimate for both the anticipated hardware configuration and the software. The estimates are subsequently multiplied by the appropriate cost model weights to derive total program cost. Previously, each application of a cost model was calculated by hand; "what if" scenarios, during which hardware configurations and software estimates are frequently modified to determine the relationship between total program cost and the hardware and software estimates chosen, resulted in tedious manual recalculations.

This paper describes the software written to automate the cost modeling process.

### 1.2 PROGRAM OVERVIEW

The SENTINEL BRIGHT Cost Models Program allows the user to create new lists of hardware and modify old ones. A hardware list contains information about the anticipated program hardware configuration, such as the number of central processing units, disc units, printers, and so on, along with respective prices. This information is then used to calculate the total hardware cost associated with the configuration. It is this total cost that is later used as the hardware estimate for a particular cost model run. Hardware lists may also be displayed on the console, sent to the printer for hard copy, or deleted from the directory.

Each of the three cost models allows the user to choose a software estimate from a set of user-defined estimates or select a

new one to serve as input to a particular model run. A listing of the user's file directory is also a Main Menu option.

### 1.3 PROGRAM DESIGN

The SENTINEL BRIGHT Cost Models Program, written in FORTRAN, is a completely menu-driven system. As such, it guides the user through the various portions of the program. Each submenu has an exit option that returns control to the menu one level above it. If so desired, the Main Menus are eventually displayed and the user may exit the Cost Models Program or step through it once again. Single-letter commands are all that are required to run program modules.

In general, modules rather than subroutines were used to accommodate the various program functions. This reduces parameter passing and minimizes the effort required to alter the program in the future.

### 1.4 FUTURE DEVELOPMENTS

The three cost models employ various hardware weights or factors which represent the system engineering, development, testing, and other cost elements associated with a hardware suite procurement. Each model makes use of different weights with emphasis placed on different cost elements. These weights may require modification in the future. As the source code is presently written, the programmer must access the appropriate cost model element file and change the weight(s), as well as change the total cost equation in the affected cost model module. The modules must then be recompiled.

It would be useful, then, to develop a utility program that would allow the user to alter the cost elements of any model and automatically recalculate the total cost equation accordingly. This would allow for the simple modification of a cost model without requiring subsequent recompilation.

## 1.5 DOCUMENT SUMMARY

This document provides the user with the information necessary to project program costs using the OASIS, Air Force, and TERCON Cost Models.

Section 2 addresses the capabilities of the SENTINEL BRIGHT Cost Models Program in detail. Section 3 deals with the utility program, SWFILE, which allows for the creation of a software estimate file. A User's Manual is contained in Appendix A and the cost elements of each of the three cost models are included in Appendix B. Appendix C contains the information required to execute the SWFILE utility program, and Appendix D consists of a program design chart. A listing of the source code is in Appendix E.

### SECTION 2

### THE SENTINEL BRIGHT COST MODELS PROGRAM

# 2.1 THE MAIN MODULE

The main module consists of a TSO programmable CLIST (command list) which displays the Main Menu and, depending upon the option exercised, loads the appropriate FORTRAN object module for execution. The CLIST also handles the creating of new files and the deletion and retrieval of old files, listing the user's file directory, and obtaining file hard copy.

## 2.1.1 The Main Menu

The Main Menu consists of the following:

## \*\* MENU OF OPTIONS \*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
O)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

### PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

The user selects an option by typing the appropriate letter. When the requested action or set of actions is complete, the Main Menu of options is again displayed.

### 2.2 CREATING A HARDWARE LIST

A hardware list consists of the various pieces of hardware that make up a particular hardware configuration, the price of each piece of hardware, the total number of each unit needed, and the number of development and/or production units required.

When the user opts to create a new hardware list, the program prompts for a file name. The file is then created and the user is guided by further prompts to complete the hardware list. For instance, the user is asked to enter the hardware identification, the unit cost, the number of units needed, and so on. As the data is entered, a sequence number is automatically assigned to each record. After each piece of hardware is entered, all of the previously entered units are displayed on the console for viewing, and a running total of hardware costs is displayed. When the hardware list is complete, the user exits by pressing the 'carriage return' when prompted for the hardware identification. The file is saved automatically and the Main Menu is displayed.

### 2.3 ALTERING A HARDWARE LIST

In order to alter an existing hardware list, the user is asked to enter the name of the file to be modified. The contents of the file are then displayed on the console along with the following prompt:

# WOULD YOU LIKE TO:

M)ODIFY A RECORD D)ELETE A RECORD A)DD A RECORD I)NSERT A RECORD E)XIT

If the modify option is chosen, the sequence number of the record to be altered is entered, the user makes the appropriate changes, and the above prompt is displayed once again. The user may delete, modify, or insert a record, add a number of records to the hardware list, or exit back to the Main Menu. All changes to a file are saved automatically (i.e., originals are lost) upon exiting the submenu.

## 2.4 REMOVING, DISPLAYING, OR PRINTING A HARDWARE LIST

When removing a hardware list from the file directory, the user merely specifies the name of the file to be deleted. Similarly, if the user wishes to display the contents of a file on the console or get a hard copy of a file, the appropriate option is selected and the correct file name is entered. The CLIST then issues the appropriate operating system command.

# 2.5 THE OASIS MODEL

To run the OASIS Model, the user is asked to specify the name of the file containing the hardware list to be used in the calculation. The OASIS cost model elements (see Appendix B) are then displayed on the console along with all of the "current" software estimates. "Current" software estimates consist of the following: estimates that have been entered into a software file through the use of a utility program (see Section 3), or software estimates that have been entered into the software file by the user during previous cost model runs.

The user may now select a "current" estimate to be used as the software value in the cost calculation, or enter a new one that is automatically saved on file and retrieved as a "current" estimate during the next cost model run.

After having defined both the hardware and software estimates, the user may opt to run the model, and the total cost for a particular project under the given hardware and software cost constraints is calculated and displayed on the console. The results of the calculation are written to an output file for future hard-copy and/or retrieval.

## 2.6 THE AIR FORCE AND TERCON MODELS

The Air Force and TERCON Models are set up in the same manner as the OASIS Model. Once the user chooses to run a model, the hardware file must be specified and a software estimate selected. The cost model elements of each model are displayed. Once again, the projected costs are displayed on the console and saved on file. The user may run a model several times with different input parameters or return to the Main Menu.

## SECTION 3

## THE SOFTWARE FILE UTILITY PROGRAM

A utility program called SWFILE allows the user to create a file in which to store various software estimates. Prompts for the software value, any comments, and date guide the user in creating the file that is saved automatically upon exiting the program. This file is subsequently read from disc and its contents displayed on the console during a cost model run. As explained in Sections 2.5 and 2.6, the user may then add software estimates to the file and/or select an existing estimate with which to run the model. Because this program will probably only be used initially to create the file, since any additions can be handled during a cost model run, the program was not incorporated into the main body of the SENTINEL BRIGHT Cost Models Program.

## APPENDIX A

## SENTINEL BRIGHT COST MODELS PROGRAM USER'S MANUAL

### A.1 INTRODUCTION

This manual serves to demonstrate the operation of the SENTINAL BRIGHT Cost Models Program. The various responses to the program prompts in the following pages are merely examples used to illustrate program functions.

#### A.2 GETTING STARTED

# A.2.1 Invoking the SENTINEL BRIGHT Cost Models Program

The SENTINEL BRIGHT Cost Models Program runs on an IBM 4341 under the TSO operating system. In order to invoke the program after logging on,

KEY: EXEC SBCOST

The program will respond with the Main Menu:

## \*\*MENU OF OPTIONS\*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
O)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

A.3 EXAMPLE 1: CREATING A HARDWARE LIST

If the CREATE option is to be exercised,

KEY: C

The system responds with:

ENTER NEW FILE NAME:

KEY: TEST.DATA (the extension .DATA must be specified)

In a few moments the system responds with the message:

TEST.DATA HAS BEEN CREATED
PLEASE ENTER THE FOLLOWING INFORMATION.
IF HARDWARE LIST IS COMPLETE,
PRESS 'RETURN' WHEN PROMPTED FOR 'IDENTIFICATION'.

ENTER HARDWARE IDENTIFICATION:

KEY: CPU

ENTER UNIT COST IN THOUSANDS:  ${}_{?}(1)$ 

**KEY: 250** 

ENTER TOTAL NUMBER OF UNITS NEEDED:

KEY: 3

ENTER NUMBER OF DEVELOPMENT UNITS:

KEY: 1

ENTER NUMBER OF PRODUCTION UNITS:

KEY: 2

## NOTE:

(1) When looking for a number, a question mark will appear after the written prompt. The user must wait until the ? appears before keying response. After the number of production units is entered, the program calculates the cost of the hardware and displays it as follows:

	ENTIFICATION	UNIT COST	NO. ***	DEVELOPMENT	PRODUCTION	TOTAL COST
1	CPU	250.0	3	1	2	750.0
_	TOTALS			250.0K	500K	750.0K

The program continues to prompt for a second piece of hardware:

ENTER HARDWARE IDENTIFICATION:

**KEY:** TERMINALS

ENTER UNIT COST IN THOUSANDS

•

**KEY:** 15

ENTER TOTAL NUMBER OF UNITS NEEDED:

<u>KEY:</u> 100

ENTER NUMBER OF DEVELOPMENT UNITS: ?

**KEY:** 20

ENTER NUMBER OF PRODUCTION UNITS:

**KEY:** 80

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION	TOTAL COST
1 2	CPU TERMINALS	250.0 15.0	3 100	1 20	2 <b>8</b> 0	750.0 1500.0
_	TOTALS		<del></del>	550.0K	1.7M	2.3M

# ENTER HARDWARE IDENTIFICATION:

If at this point the hardware list is complete, press the 'RETURN' key. The program then displays the following message:

YOUR FILE HAS BEEN SAVED

The program now returns back to the Main Menu.

A.4 EXAMPLE 2: ALTERING A HARDWARE LIST

# \*\* MENU OF OPTIONS \*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
0)OASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

To alter an existing hardware list:

KEY: A

The program responds:

ENTER FILE NAME:

**KEY:** TEST.DATA

The contents of TEST.DATA are displayed on the console.

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION ******	TOTAL COST
1 2	CPU TERMINALS	250.0 15.0	3 100	1 20	2 80	750.0 1500.0
	TOTALS			550.0K	1.7M	2.3M

# WOULD YOU LIKE TO:

M)ODIFY A RECORD D)ELETE A RECORD A)DD A RECORD I)NSERT A RECORD E)XIT

# A.4.1 Adding a Record

The user now selects the type of modification to be completed. For example, to add a record:

KEY: A

The program responds with:

ONCE RECORD(S) ARE ADDED PRESS 'RETURN' WHEN PROMPTED FOR 'IDENTIFICATION'

ENTER HARDWARE IDENTIFICATION:

**KEY:** PRINTERS

ENTER UNIT COST IN THOUSANDS:

?

KEY: 5

ENTER TOTAL NUMBER OF UNITS NEEDED:

?

KEY: 4

ENTER NUMBER OF DEVELOPMENT UNITS:

?

KEY: 0

ENTER NUMBER OF PRODUCTION UNITS:

?

KEY: 4

The contents of the file, along with new record(s) are displayed.

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION	TOTAL COST
1 2 3	CPU TERMINALS PRINTERS	250.0 15.0 5.0	3 100 4	1 20 0	2 80 4	750.0 1500.0 20.0
	TOTALS			550.0K	1.7M	2.3M

The program continues prompting for additional records,

ENTER HARDWARE IDENTIFICATION:

# A.4.2 Modifying a Record

At this point, the user may add additional records or press the 'RETURN' key. Assuming that the latter action is performed, the program returns to the prompt:

# WOULD YOU LIKE TO:

M)ODIFY A RECORD D)ELETE A RECORD A)DD A RECORD I)NSERT A RECORD E)XIT

To modify a record:

KEY: M

The program responds:

WHICH RECORD WOULD YOU LIKE TO MODIFY?

KEY: 2

The record specified then appears on the console along with the following prompt:

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION ******	TOTAL COST
2	TERMINALS	15	100	20	80	1500.0

MODIFY I)DENTIFICATION, UNIT COST, N)O. OF UNITS, D)EVELOPMENT, P)RODUCTION T)OTAL COST, E)XIT?

To modify unit cost:

KEY: U

The program prompts:

ENTER UNIT COST IN THOUSANDS:

**KEY: 20** 

# The program responds:

## RECORD NO. 2 NOW LOOKS LIKE THIS:

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION	TOTAL COST
2	TERMINALS	20.0	100	20	80	2000.0

The unit cost has been altered and the total cost recalculated. The contents of the entire file are then displayed on the console along with:

### WOULD YOU LIKE TO:

M)ODIFY A RECORD D)ELETE A RECORD A)DD A RECORD I)NSERT A RECORD E)XIT

Before moving on to inserting and deleting a record, there is another point that should be made concerning modifying a record. As mentioned above, when the user wishes to modify a record, the program prompts for the section of the record to be altered--i.e., the hardware identification, unit cost, number of units, development and production units, or the total cost.

The user can alter the number of development and/or production units without modifying the total number of units manually. The program accepts development and production unit changes and automatically modifies the total number of units accordingly. When the user opts to alter the total number of units required, the program once again accepts the modification and then prompts the user:

REENTER D)EVELOPMENT, P)RODUCTION UNITS, B)OTH, OR N)EITHER?

in anticipation of any further action that might be necessary. For example, the user may have incorrectly entered the total number of

units required and not wish to modify any other entries. Or it may be necessary to reflect a change in the total number of units in terms of the development and/or production units. Hence, the program accommodates all of the possibilities. When all modifications are complete, the contents of the file are displayed on the console.

# A.4.3 Inserting and Deleting a Record

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION	TOTAL COST
1 2 3	CPU TERMINALS PRINTER	250.0 20.0 5.0	3 100 4	1 20 0	2 80 4	750.0 2000.0 20.0
-	TOTALS			650.0K	2120.0K	2.8M

WOULD YOU LIKE TO:

M)ODIFY A RECORD
D)ELETE A RECORD
A)DD A RECORD
1)NSERT A RECORD
E)XIT

To delete a record,

KEY: D

The program responds with:

WHICH RECORD WOULD YOU LIKE TO DELETE?

KEY: 2

The contents of the altered file are displayed for the user.

IDENTIFICATION		UNIT COST	NO.	DEVELOPMENT	PRODUCTION	TOTAL COST
1 2	CPU PRINTER	250.0 5.0	3 4	1 0	2 4	750.0 20.0
_	TOTALS			250.0K	520.0K	770.0K

WOULD YOU LIKE TO:

M)ODIFY A RECORD D)ELETE A RECORD A)DD A RECORD I)NSERT A RECORD E)XIT

In order to insert a record

KEY: I

The program asks:

AFTER WHICH RECORD WOULD YOU LIKE TO INSERT A RECORD?

KEY: 1

The program guides the user:

ENTER HARDWARE IDENTIFICATION:

**KEY:** MODEMS

ENTER TOTAL NUMBER OF UNITS NEEDED:

**KEY:** 20

ENTER NUMBER OF DEVELOPMENT UNITS:

<u>KEY:</u> 0

ENTER NUMBER OF PRODUCTION UNITS:

**KEY:** 20

After the number of production units is entered, the file is again displayed on the console.  $\label{eq:console}$ 

	DENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION	TOTAL COST
1 2 3	CPU MODEMS PRINTER	250.0 .2 5.0	3 20 4	1 0 0	2 20 4	750.0 4.0 20.0
	TOTALS			250.0K	524.0K	774.0K

WOULD YOU LIKE TO:

M)ODIFY A RECORD D)ELETE A RECORD A)DD A RECORD I)NSERT A RECORD E)XIT

To return to the Main Menu:

KEY: E

### A.5 EXAMPLE 3: DISPLAYING A HARDWARE LIST

## \*\*MENU OF OPTIONS\*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
0)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

## PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

If the user wants to take a look at a hardware list before running a cost model to determine if, for instance, the hardware list must be altered, or if it is the correct file to use for a particular cost model run, the program allows the user to display the contents of a file on the console.

KEY: D

The program replies:

ENTER FILE NAME:

KEY: TEST.DATA

and the file is displayed.

	ENTIFICATION	UNIT COST	NO.	DEVELOPMENT	PRODUCTION *****	TOTAL COST
1	CPU	250.0	3	1	2	750.0
2	MODEMS	.2	20	0	20	4.0
3	PRINTER	5.0	4	0	4	20.0
	TOTALS	<del></del>		250.0K	524.0K	774.0K

### A.6 EXAMPLE 4: PRINTING A FILE

\*\*MENU OF OPTIONS\*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
O)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

In order to get a hard copy of a file--a hardware list, the software estimate file, or an output file which stores various cost modeling results.

KEY: P

and the program states:

ENTER FILE NAME:

KEY: TEST.DATA

After a few moments, the program responds:

PROCESSING ENDED AT EOD

PRINT ANOTHER FILE?

Y)ES OR N)O

The user enters the appropriate response. Once the file(s) have been sent to the printer for hard copy and the N)0 option specified, the program returns to the Main Menu.

# A.7 THE OASIS, TERCON, AND AIR FORCE COST MODELS

## \*\*MENU OF OPTIONS\*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
0)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

### PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

Since the process by which a cost model is run is exactly the same for each model, the OASIS Cost Model will serve as the example for the three models.

To run the OASIS Model,

KEY: 0

The program responds:

ENTER FILE NAME CONTAINING HARDWARE LIST:

KEY: TEST.DATA

ENTER SOFTWARE ESTIMATE FILE NAME:

KEY: SW.DATA(1)

### NOTE:

(1) The software estimate file name is the name of the file containing one or more of the software estimates to be used in the cost calculation. It is created using the utility program SW.FILE. See Appendix C.

The program then prompts for an output file, the file in which the results of the cost model are to be stored for future reference.

# WOULD YOU LIKE TO:

C)REATE A NEW OUTPUT FILE R)ETRIEVE AN OLD ONE

KEY: C

ENTER NEW OUTPUT FILE NAME:

KEY: OASIS.DATA

The OASIS Cost Model elements are now displayed on the console.

# OASIS COST MODEL ELEMENTS

HARDWARE COST SUPPORT MATERIAL (SPARES, MANUALS,		HW
LICENCES, DIAGNOSTIC KITS, ETC.)	1.00	HW
SUBCONTRACT MAINTENANCE	.24	HW
LABOR (ENGINEERING)	.80	HW*
BURDEN	.80	HW <sup>*</sup>
OTHER DIRECT COSTS	.20	HW*
SUBTOTAL	4.04	HW
G & A @ 15% OF SUBTOTAL	.61	HW
FEE @ 12% OF SUBTOTAL	.48	HW
HARDWARE FACTORS	5.13	HW
SOFTWARE		SW
**TOTAL COST**	5.13	HW' + 2.85 HW

WHERE HW' = COST OF PRIME SET OF HARDWARE HW = COST OF REMAINING HARDWARE

The software estimates contained in the software estimate file specified earlier are also displayed.

<sup>\*</sup>THESE FACTORS APPLY TO THE PRIME SET OF HARDWARE ONLY.

# \*\*CURRENT SOFTWARE ESTIMATES DISPLAYED IN MILLIONS\*\*

	VALUE	COMMENTS	DATE
1	3.40	JENSEN	3 MAR 83
2	4.20	CMC	3 MAR 83

# WOULD YOU LIKE TO:

A)DD A NEW SOFTWARE ESTIMATE C)HOOSE AN OLD ONE R)UN COST MODEL E)XIT

To add an estimate to the file,

KEY: A

The program subsequently prompts:

ENTER SOFTWARE ESTIMATE: (INCLUDE DECIMAL POINT)

**KEY:** 5.7

**ENTER COMMENTS:** 

**KEY:** JENSEN

ENTER DATE:

KEY: 30 MAR 83

## \*\*CURRENT SOFTWARE ESTIMATES DISPLAYED IN MILLIONS\*\*

	VALUE	COMMENTS	DATE
1	3.40	JENSEN	3 MAR 83
2	4.20	CMC	3 MAR 83
3	5.70	JENSEN	30 MAR 83

All of the "current" software estimates are displayed along with:

# WOULD YOU LIKE TO:

A)DD A NEW SOFTWARE ESTIMATE C)HOOSE AN OLD ONE R)UN COST MODEL E)XIT

To select an "old" software estimate:

KEY: C

WHICH ESTIMATE?

?

**KEY:** 2

The program once again responds with the following prompt:

WOULD YOU LIKE TO:

A)DD A NEW SOFTWARE ESTIMATE C)HOOSE AN OLD ONE R)UN COST MODEL E)XIT This prompt is displayed in order to give the user the opportunity to exit at any time, for example, if the wrong estimate was inadvertently chosen.

To run the OASIS Model,

KEY: R

ENTER TODAY'S DATE:

**KEY:** 30 MAR 83

The results of the calculation are displayed on the console and written to the specified output file.

# 30 MAR 1983

CASE 1 **********************	*******
THE SOFTWARE ESTIMATE IS:	4.20M
THE HARDWARE DEVELOPMENT COSTS ARE:	6.4M
THE HARDWARE PRODUCTION COSTS ARE:	4.4M
**THE OASIS MODEL COST ESTIMATE IS:	49.6M

The software estimates are now displayed and the user has the option of running the Cost Model once again.

# \*\*CURRENT SOFTWARE ESTIMATES DISPLAYED IN MILLIONS\*\*

	VALUE	COMMENTS	DATE
1 2	3.40	ME	3 MAR 83
2	4.20	ME	3 MAR 83
3	5.70	JENSEN	30 MAR 83

# WOULD YOU LIKE TO:

A)DD A NEW SOFTWARE ESTIMATE C)HOOSE AN OLD ONE R)UN COST MODEL E)XIT

To run the model with another software estimate,

KEY: C

WHICH ESTIMATE?

?

KEY: 1

# WOULD YOU LIKE TO:

A)DD A NEW SOFTWARE ESTIMATE C)HOOSE AN OLD ONE R)UN COST MODEL E)XIT

KEY: R

And the results are calculated and displayed.

THE SOFTWARE ESTIMATE IS:

THE HARDWARE DEVELOPMENT COSTS ARE:

THE HARDWARE PRODUCTION COSTS ARE:

\*\*THE OASIS MODEL COST ESTIMATE IS:

48.8M

# \*\*CURRENT SOFTWARE ESTIMATES DISPLAYED IN MILLIONS\*\*

	VALUE	COMMENTS	DATE
1	3.40	ME	3 MAR 83
2	4.20	ME	3 MAR 83
3	5.70	JENSEN	30 MAR 83

# WOULD YOU LIKE TO:

A)DD A NEW SOFTWARE ESTIMATE C)HOOSE AN OLD ONE R)UN COST MODEL E)XIT

KEY: E (to exit)

# A.8 REMOVING A HARDWARE LIST FROM THE FILE DIRECTORY

## \*\*MENU OF OPTIONS\*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
0)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

To remove or delete a hardware list from the file directory,

KEY: R

The program then asks the user:

**REMOVE WHICH FILE?** 

**KEY:** TEST.DATA

When the file has been deleted, the message,

TEST.DATA HAS BEEN DELETED

appears on the screen. The Main Menu is then displayed on the console.

# A.9 LIST FILE DIRECTORY

# \*\*MENU OF OPTIONS\*\*

C)REATE HARDWARE LIST
A)LTER HARDWARE LIST
R)EMOVE HARDWARE LIST
D)ISPLAY HARDWARE LIST
P)RINT FILE
0)ASIS MODEL
U)SAF MODEL
T)ERCON MODEL
L)IST FILE DIRECTORY
E)XIT SYSTEM

PLEASE ENTER CORRESPONDING SINGLE-LETTER COMMAND

To obtain a listing of the file directory, simply

KEY: L

and the program will display on the console all the files contained in the user's directory and return to the Main Menu.

A.10 EXITING THE PROGRAM

To exit the SENTINEL BRIGHT Cost Models Program,

KEY: E

Shortly thereafter, the prompt

**READY** 

will appear. This signifies that control has been returned to the TSO operating system, from which the user can execute another program, log off, and so on.

# APPENDIX B

# THE COST MODELS

# B.1 THE OASIS COST MODEL

The following is a list of the OASIS Cost Model elements, upon which the hardware weights are derived.

# OASIS COST MODEL ELEMENTS

HARDWARE COST		HW
SUPPORT MATERIAL (SPARES, MANUALS	1 00	1411
LICENCES, DIAGNOSTIC KITS, ETC.)	1.00	HW
SUBCONTRACT MAINTENANCE	.24	HW
LABOR (ENGINEERING)		KW*
BURDEN		HW*
OTHER DIRECT COSTS	.20	HW*
SUBTOTAL	4.04	HW
G & A @ 15% OF SUBTOTAL	.61	HW
FEE @ 12% OF SUBTOTAL	.48	HW
HARDWARE FACTORS	5.13	HW
SOFTWARE		SW
**TOTAL COST**	5.13	HW' + 2.85 HW +

WHERE HW' = COST OF PRIME SET OF HARDWARE HW = COST OF REMAINING HARDWARE

<sup>\*</sup>THESE FACTORS APPLY TO THE PRIME SET OF HARDWARE ONLY.

# B.2 THE AIR FORCE COST MODEL

The following includes the Air Force Cost Model elements.

# AIR FORCE COST MODEL ELEMENTS

	<del></del>
HARDWARE	HW
HARDWARE ENGINEERING	.25 HW
INTEGRATION & ASSEMBLY (.0914)*	.10 PME
SUBTOTAL PME (TOTAL OF ABOVE)	1.25 HW + .10 PME = 1.40 HW
TEST & EVALUATION (.1825)	.25 PME
DATA (.1622)	.10 PME
PECULIAR SUPPORT EQUIPMENT (.0102)	
SPARES (.1922)	.00 PME
OPERATIONAL SITE ACTIVATION (.0305)	.05 PME
SUBTOTAL SUPPORT COSTS	.40 PME
SOFTWARE	SW
SYSTEM ENGINEERING	.23 (PME + SW) = .28 HW + .20
**TOTAL COST**	2.65 HW + 1.20 SW

<sup>\*</sup>RANGE OF VALUES PRESENTED IN THE STUDY

# B.3 THE TERCON COST MODEL

The TERCON Cost Model elements are as follows:

# TERCON COST MODEL ELEMENTS

HARDWARE CABLES & INSTALLATION KITS	.05 HW
PME (TOTAL OF ABOVE) SOFTWARE	1.05 HW SW
FACILITIES	.01 PME
DT&E	.30 PME + .20 SW
SYSTEM ENGINEERING	.15 PME + .15 SW
R/M/A	.01 PME
PROGRAM MANAGEMENT	.15 PME + .15 SW
CONFIGURATION MANAGEMENT	.01 PME + .01 SW
PACK ING	.01 PME
TRANSPORTATION	.02 PME
QUALITY ASSURANCE	.01 PME + .01 SW
DATA	.15 PME + .05 SW
SUPPORT EQUIPMENT ACQUISITION SPARES	.03 PME .04 PME
TOTAL SUPPORT COSTS	.89 PME + .57 SW
TOTAL DIRECT COSTS	1.98 HW + 1.57 SW
INDIRECT COSTS	.35 (1.98 HW + 1.57 SW)
**TOTAL COST**	2.65 HW + 2.10 SW

# APPENDIX C

# SOFTWARE ESTIMATES FILE UTILITY PROGRAM

SWFILE is a TSO programmable CLIST that creates a file in which to store the various software estimates used in the cost calculations.

To execute the utility program SWFILE,

KEY: EXEC SWFILE

The program prompts:

ENTER SOFTWARE ESTIMATE FILE NAME:

KEY: (e.g., SW.DATA)

ENTER SOFTWARE ESTIMATE IN MILLIONS: (INCLUDE DECIMAL POINT)

KEY: 4.2

**ENTER COMMENTS:** 

KEY: JENSEN

ENTER DATE:

**KEY:** 7 MAR 83

ENTER SOFTWARE ESTIMATE IN MILLIONS: (INCLUDE DECIMAL POINT)

**KEY:** 3.8

**ENTER COMMENTS:** 

KEY: CMC

ENTER DATE:

KEY: 10 MAR 83

The program again displays all of the estimates.

	VALUE	COMMENTS	DATE
1 2	4.2	JENSEN	7 MAR 83
	3.8	CMC	10 MAR 83

ENTER SOFTWARE ESTIMATE IN MILLIONS: (INCLUDE DECIMAL POINT)

When all estimates have been entered, press 'RETURN' to exit program when prompted for the next software estimate.

The program automatically saves the contents of the file under the name specified and informs the user,

# YOUR FILE HAS BEEN SAVED

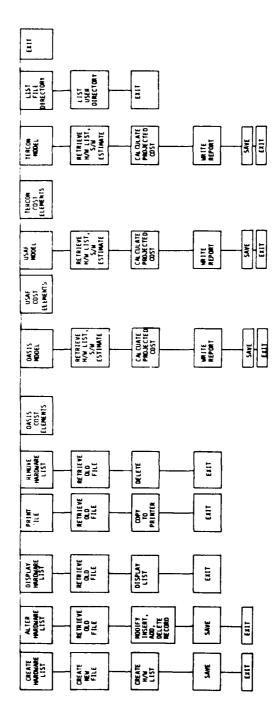
The "READY" prompt will appear and the system is waiting to accept any TSO operating system command.

# APPENDIX D PROGRAM DESIGN CHART

THE SENTINEL BRIGHT COST MODELS PROGRAM

MAIN MODULE

(MENU)



# APPENDIX E THE SOURCE CODE

```
WHITE WOULD YOU LIKE T NEW DUTPUT FILE

WHITE TELESTEE AN OUD DNE

READ BASS - CHEW - CHESTEE OF CONDISO

ALLOC FI[TOSPOD] DAGFILES] OLD

ALLOC FI[TOSPOD] DAGFILES] OLD

ALLOC FI[TOSPOD] DAGFILES] OLD

ALLOC FI[TOSPOD] DAGFILES] OLD

WHITE ENTER NEW DUTPUT FILENAME

READ SFILES

ALLOC FI[TOSPOD] DAGFILES] OLD

ALLOC FI[TOSPOD] OND

ALLOC FI[TOSPOD] OND

ALLOC FI[TOSPOD] OND

ALLO
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	INDUSTRIAL STREET	0000000
		00000010
MODULE		00000000
FUNCTION PADEITS	ON . CREATES NEW HARDWARF LIST	00000040
		09000000
STORTO		0000000
DESCRIPTION	PILON : THE MODULE CREATES A NEW FILE IN	00000000
	LENAME PROGRAM TH	00000100
	ES USER IN CREATING HARDWARE	00000110
	•	00000120
	EXE BGBIN DISTINCT	00000130
		00000150
Ĭ.	DIMENSION COUNT(80), ID(50.6), UCOST(50), NOM(50), DEV(50),	00000
INTE	INTEGER+4 ID.NUM.DEV.PRO.BLANK.IHOU.MILL.DENOM.DENOM2.DENOM3	00000170
INTE	INTEGER SUM, COUNT	06100000
REAL SERVICE	*4 UCGST, TCGST, AMQUNT, TEMP, TPCGST, TPCGST, TEMP3	00000000
		00000210
WRIT	E(5,2t)	00000230
21 FORMAT	PLEASE ENTER THE FOLLOWING IN	00000250
_	DWARE LIST IS COMPLETE	
~	. PRESS . RETURN. WHEN PROMPTED FOR . IDENTIFICATION.	0720000 (
AMOU	AMOUNT =0.0	00000290
DENG	DENOM-THOU	000000300
0 2	DEMONIA - THOU	00000308
2	MIGHTON /* PROMETTING FIRE HARDWARD ITCT ./	00000307
2		00000350
25	SUM - SUM+ 1	00000330
8 9	COUNT(1)=SUM	00000340
31	CONTRACTOR TRADEST TOTAL CONTRACTOR CONTRACT	00000350
		00000310
- -	-	00000380
- 9	IT(IU(I,1) .tg. BLANKJGU IU SOO	06000000
51 F0	FORMAT(' ENTER UNIT COST IN THOUSANDS ')	000004 50
3	051(	000000420
*	WARTE(5.61) FORMATI' SHIED TOTA: ANIMODED OF INLIES ANIMODED OF	00000430
	MET STATE NOMBER OF UNITS NEEDED	00000410
3	17E(5,71)	00000450
71 F0	_	00000470
₩ <b>1</b>	2640(8)0E<(1)	00000480
	C. SIND NOTICE OF ENDING	OKKINAGO OKKINGO
		OCKNONS 10
£ ;	1COST(1) - (UCOST(1) - MUM(1))	OCHOCKIO 520
- 2	F.M. 2   T.M. 2   (1)	2001411200
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                                                                                                                                                                                                                                           DO 111 K-1, SUM
WRITE(5,101)COUNT(K) (1D(K,J),J-1,6),UCOST(K),NUM(K),DFV(K),
PRO(K),TCOST(K)
FORMAT(11,12,T6,6A4,123,F6 1,T33,14,T41,14,T55,14,T68,
F10,1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WRITE(S. 131)TDCOST DENUM2 TPCOST DENUM3 AMOUNT DENUM FORMAT(TB. TQTALS', TAO, FB. 1,A2, TSA, FB. 1,A2, TS7, FB. 1,A2) CONTINUE
TOCOST-TEMP 2

FOR STATEMP 2

IF (TEMP GE 1000) AMADUNT - IF MP / 1000

IF (TEMP GE 1000) DENOM-MILL

MRITE (S. 1000) DENOM-MILL

MRITE (S. 1)

FORMAT (TS. 10BK MITE CATION', 722, "UNIT COST", 734, "NO '...

7074 COST')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WRITE(8,201)TOCOST, OFNOWS, IFCOST, OFNOWS, AMOUNT, DENOM FORMAT(T8, 10TALS', 140,F8 1,A2, F54,F8 1,A2, T67,F8 1,A2)
                                                                                                                                                                                                                                                                                                                                                                                                                                     500 SUM4-5UM-1
500 SUM4-5UM-1
61 FORMAT(12)
61 FORMAT(12)
61 FORMAT(13)
710. DEVELOPMENT. 154. 'PRODUCTION', 168.
1 140. DEVELOPMENT. 154. 'PRODUCTION', 168.
                                                                                                                                                                                                 /* END PROMPT */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WRITE(5,211)
211 FORMAT(" YOUR FILE HAS BEEN SAVED.")
                                                                                                                                                                                                                                                                                                                   CONTINUE
WRITE(5,121)
FORMAT(T4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 CONTINUE
WRITE(8, 191)
191 FORMAT(74
                                                                                                                                                                                  WRITE(5.97)
FORMAT(15, '*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $70P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :
```

MARCH 1983	THE SENTINEL BRIGHT COST MODE CATHERINE M. COLECCHI	COST MODELS PROGRAM CDLECCHI	00000000
### ### ##############################	PLOCE TO THE PROCES		000000
Triple   T	<b>Z</b>	2 11 2 21 2 22 2 2 2 2 2 2 2 2 2 2 2 2	000000
SCRIPTION   ALLOWS USER TO MODIFY, DELETE, ON HYSERT A PRICUO.	DUTPUTS : RECORD NO. : MOST LOS OF DUTPUTS :		000000
DIMENSION COUNT(80).1D(50.6).UCGST(50).NUM(50).  DIMENSION COUNT(80).1D(50.6).UCGST(50).TITLE(1,20).STRE(1,20).  LINE(1,19)  REAL * UCGST.TCGST.TDCGST.AMOUNI.STORE.STORE.STORE 3  INTEGER * UL COMM.TRECOS.AMS.REPLY * A. D. VERGEC.BLANK.PRING.  TEMP.NUGGE.OME.FLAG.NUM.OM.OF.ADO.PUEFC.DEROM.DFNNO.  DENOMO.THOURTEE.OME.FLAG.NUM.OM.OF.ADO.PUEFC.DEROM.DFNNO.  DENOMO.THOURTEE.OME.FLAG.NUM.OM.OF.ADO.PUEFC.DEROM.DFNNO.  DENOMO.THOURTEE.OME.FLAG.NUM.OM.OF.ADO.PUEFC.DEROM.DFNNO.  READ(8.1)SUM  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(2)  FORMATI(3)  FORMATI(4)  FORMATICA  FO	USER TO MODIFY.	OR INSERT A	00000
DEVISO, PROISO, ITCDS1(SO).TITLE(1,20).STAR(1,20).	DIMENSION COUNT(80), ID(50,6), UCDST(	50), NJM(50),	90000
REAL + UCDST. FOODST. PRODEST, AMDUNIT, STORE. STORE 2. STORE 3. INVECER + U. LINK(11, 149)	1 DEV(50), PRO(50), TCDST(50)	.TITLE(1,20).STAR(1,20).	100000
INTEGER 4 TO MAIN DEV PRO TITLE STAR LINE, VAL  INTEGER 5 WE COUNT RECOGN ANS SERVEY. A.D. E. U. P. DELREC, BLANK, PRICE  INTEGER SAUC COUNT RECOGN ANS SERVEY. A.D. E. U. P. DELREC, BLANK, PRICE  DENOMAL TEMP. MOREC. DNE FLAG. NOT ON OF F. ADO. PUTREC. DENOM. DENOM.  DENOMAL A/A'/, D/O', E/E' / I/I'I'/ U/U'/ N/W'/ P/P' / B/R'/  BEAD(8.13 UNDER FILE, DISPLAY ON CONSOIE +/  READ(8.13 UNDER FILE, DISPLAY ON CONSOIE +/  READ(8.3) SITILE(1.J), J*1.20)  FORMAT(50A4)  WRITE(5.3) SITILE(1.J), J*1.20)  READ(8.10) COUNT(K), (10(K.J), J*4.5) UCGST(K).  READ(8.10) COUNT(K), (10(K.J), J*4.5) UCGST(K).  READ(8.10) COUNT(K), (10(K.J), J*4.5) UCGST(K).  WRITE(5.3) SITILE(1.J), J*1.19)  READ(8.10) COUNT(K), (10(K.J), J*1.6) UCGST(K).  WRITE(5.2) SITILE(1.J), J*1.19)  READ(8.2) COUNT(K), (10(K.J), J*1.70)  READ(8.2) COUNT(K), (10(K.J), J*1.70)  READ(8.2) COUNT(K), (10(K.J), J*1.70)  READ(8.2) (111LE(1.J), J*1.10)  READ(8.2) (111LE(1.J), J*1.10)  READ(8.2) (111LE(1.J), J*1.20)	2 LINE(4,19) BFAL+4 LCGST TCGST TDCGST FPCGST AM	WWT.STORE.STORE2.STORE3	00000
INTEGER SQUE COUNT, RECORD, ANS. RELY, A.D. E. U.P. DELGREC, BLADAN,  DOTA A // A', O' O' C' E' E' E' // I' // U' U' // M' M' / P' P' // B' R' //  DOTA A // A', O' O' C' E' E' E' // I' // I' // U' U' // M' M' // P' P' // B' R' //  DEMONS) THEW, MILL, NEW, BEFORE, CHANGE CONTOUR E' //  READ(B, 1) SUM FORMAT(12)  READ(B, 5) (TITLE(1, J), J*1, 20)  WRITE(5, 5) (STAR(1, J), J*1, 19)  WRITE(5, 5) (COUNT(K), (ID(K, J), J*1, 6), UCOST(K),  WRITE(5, 22) (LIME(1, J), J*1, 19)  FORMAT(19, A)  WRITE(5, 22) (TITLE(1, J), J*1, 10)  FORMAT(10, R), A J TS, FR 1, AZ, FR 1, AZ, TR 7, TR 1, AZ,	INTEGER-4 ID, NUM, DEV. PRO, TITLE, STAR	LINE . VAL	100000
Designal Through Hill, NEW, BEFORE, CHANGE  DATA A/A', D/TO', E'F'', I/T', U'U'', N'N', P'P'', BY''.  BEANGE, 15 SWART(12)  READ(8, 15 SWART(13)  READ(8,	INTEGER SUM, COUNT, RECNO, ANS, REPLY, A		00000
DATA A/A-/, D/-D', E/-E', I/-I', U/-U', W/-W', P/-P', B -R',    READ(B, 1) SUM   FABD FILE, D  SPLAY ON CONTO!E */   READ(B, 5) ITILE[1, 0], J-1, 20]   READ(B, 5) ITILE[1, 0], J-1, 10]   READ(B, 10) COUNT[W], (ID(W, 0), J-1, 6), UCGST(K), WHITE[5, 20] (LIME[1, 0), J-1, 19)   READ(B, 2) ITILE[1, 0], J-1, 20]   ROBMAT[(1,20A)]   ROBMAT[(2,20A)]		CHANGE	
READ(6, 1) SUM  READ(6, 1) SUM  READ(6, 1) SUM  READ(6, 1) SUM  READ(6, 1) STITLE(1, U), U=1, 20)  READ(6, 2) STITLE(1, U), U=1, 20)  READ(6, 2) STATILE(1, U), U=1, 10)  WRITE(5, 2) STATILE(1, U), U=1, 20)  FORMAT(7) STATILE(1, U), U=1, 10)  FORMAT(1, U) STATILE(1, U), U=1, 10)	DATA	'U' / 'N/'N' / 'P/'P' / 'B/'R' /.	_
### ##################################		/ M. / 3 3 1 M. / 3 M. / 100 M. 1 / 10 / 140 /	
READ(8,1)SUM  READ(8,3)(IIILE(1,J),J*1.20)  FDRMAT(2004)  WHITE(5,3)(IIILE(1,J),J*1.20)  READ(8,3)(STAR(1,J),J*1.20)  READ(8,3)(STAR(1,J),J*1.20)  READ(8,1)(STAR(1,J),J*1.20)  READ(8,1)(STAR(1,J),J*1.20)  READ(8,1)(STAR(1,J),J*1.20)  READ(8,1)(STAR(1,J),J*1.20)  READ(8,1)(STAR(1,J),J*1.30)  WHITE(5,10)(COUNT(K),(ID(K,J),J*1.6),UCGST(K),  WHITE(5,2)(LINE(1,J),J*1.19)  WHITE(5,2)(LINE(1,J),J*1.19)  READ(8,2)(LINE(1,J),J*1.19)  WHITE(5,2)(STAR(1,J),J*1.20)  FORMAT(18,1)(STAR(1,J),J*1.20)  FORMAT(18,1)(STAR(1,J),J*1.20)  FORMAT(18,1)(STAR(1,J),J*1.20)  FORMAT(1,2004)  WHITE(5,2)(STAR(1,J),J*1.20)  FORMAT(1,2004)  WHITE(5,2)(STAR(1,J),J*1.20)  FORMAT(1,2004)  WHITE(5,2)(COUNT(K),(ID(K,J),J*1.51)  FORMAT(1,2004)  WHITE(5,2)(COUNT(K),(ID(K,J),J*1.51)  FORMAT(1,2004)  WHITE(5,2)(COUNT(K),(ID(K,J),J*1.51)  FORMAT(1,2004)	/ - READ FILE, DISPLAY ON		200000
FORMAT(12) FEATURE (1.0), U-1.20) FEATURE (2.5)(TITLE(1.0), U-1.20) FEATURE (2.5)(STAR(1.0), U-1.20) WRITE(5.5)(STAR(1.0), U-1.20) WRITE(5.5)(STAR(1.0), U-1.20) WRITE(5.5)(STAR(1.0), U-1.20) WRITE(5.5)(STAR(1.0), U-1.20) FEATURE (2.5)(STAR(1.0), U-1.20) FEATURE (2.20)(LIME(1.0), U-1.10) FORMAT(1.12.T6, 6A4.173.F6, 1.737.14, TA1.14, TS5.14, TQ8.F10.10) WRITE(5.20)(LIME(1.0), U-1.10) FORMAT(1.12.T6, FA.12.T6, 1.737.14, TA1.14, TS5.14, TQ8.F10.10) WRITE(5.20)(LIME(1.0), U-1.10) FORMAT(1.0) WRITE(5.20)(LIME(1.0), U-1.20) FORMAT(1.0)	BEAD( a c)Cina		00000
READ(8.5)(TITLE(1.J), J*1.20) WRITE(5.5)(TITLE(1.J), J*1.20) WRITE(5.5)(TITLE(1.J), J*1.20) WRITE(5.5)(TAR(1.J), J*1.20) WRITE(5.5)(TAR(1.J), J*1.20) WRITE(5.5)(TAR(1.J), J*1.20) WRITE(5.5)(TAR(1.J), J*1.20) READ(8.10)(TORNAT(R), (TD(K.J), J*1.6), UCG5(K), MAN(K), DEV(K), PRD(K), TAS. F6.1.73.14.74.16.15.14. FORMAT(TI.12.76, BAA.723.F6.1.73.14.74.16.16.10. WRITE(5.10)(COUNT(R), (TD(K.J), J*1.6), UCG5(K), WRITE(5.21)(LIME(1.J), J*1.19) WRITE(5.22)(LIME(1.J), J*1.19) FORMAT(T9.41) WRITE(5.25)(TITLE(1.J), J*1.20) FORMAT(T9.700A) FORMAT(T9.700A) WRITE(5.25)(TITLE(1.J), J*1.20) FORMAT(T9.20A) WRITE(5.25)(TITLE(1.J), J*1.20) FORMAT(T9.20A) WRITE(5.25)(TITLE(1.J), J*1.20) FORMAT(T9.20A) WRITE(5.25)(TAS. F6.70A) WRITE(5.25)(TITLE(1.J), J*1.20) FORMAT(T9.20A) WRITE(5.25)(TITLE(1.J), J*1.20) FORWAT(T9.20A)	F DRMAT(12)		00000
PERMAT(FS.5)(TITLE(1.J), U+1.20) WRITE(5.5)(TITLE(1.J), U+1.20) WRITE(5.5)(TAR(1.J), U+1.20) WRITE(5.5)(TAR(1.J), U+1.20) WRITE(5.5)(TAR(1.J), U+1.20)  READ(8.(0)(COLNATK), (TD(K.U), U+1.6), UCG5T(K), MANGKI, DEV(K), PROTK), TG05T(K), WRITE(5.10)(COUNT(K), (TD(K.U), U+1.6), UCG5T(K), WRITE(5.21)(LIME(1.J), U+1.19) WRITE(5.22)(LIME(1.J), U+1.19) WRITE(5.22)(TITLE(1.J), U+1.19) WRITE(5.23)(TITLE(1.J), U+1.20) WRITE(5.25)(TITLE(1.J), U+1.20) WRITE(5.271)COUNT(K), (TO(V.K), D=00(K), TGOST(K), WRITE(5.271)COUNT(K), TO(V.K), TO(V.K), WRITE(5	READ(8,5)(TITLE(1,J),J+1,20)		00000
READ(8.1) SISTAR(1.J), J-1.20)  BEAD(8.10) CRIMIT(1.J), J-1.20)  DO 20 Ke-1.5UM  READ(8.10) CRIMIT(1.J), J-1.20)  MAMIN) DEVIN) PROTECTION 1. 14, 15, 14, 171. 14, 155, 14, 168, 10) CRIMIT(1.1.12 fc, 6.84, 173. 16, 1, 173. 14, 141. 14, 155, 14, 168, 10) CRIMIT(1.1.12 fc, 6.84, 173. 16, 1, 173. 14, 141. 14, 155, 14, 168, 10) CRIMIT(1.12 fc, 6.84, 173. 16, 1, 173. 14, 141. 14, 155, 14, 168, 10, 10, 11, 19)  CONTINUE  READ(8.23) [LINE(1.J), J-1.19)  WRITE(8.23) [LINE(1.J), J-1.19)  WRITE(8.23) [LINE(1.J), J-1.19)  WRITE(8.23) [TILE(1.J), J-1.10)  FORMAT(184, 170 LELS, 1740, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	5 FORMAT(2084)		00000
WHITE(S. 23)(STAR(1.J), J.*1.20)  DO 20 K**1.5UM  READ(8. (D)COLUNT(K), (TD(K.J), J.*4, S), UCGST(K),  MUMIN), DEV(K), PROTK), TGGST(K),  WHITE(S. (D)COLUNT(K), (TD(K.J), J.*1, S), UCGST(K),  WHITE(S. (D)COLUNT(K), (TD(K.J), J.*1, S), UCGST(K),  MUMIN, (D)COLUNT(K), (TD(K.J), J.*1, S), UCGST(K),  MUMIN, (D)COLUNT(K), (TD(K.J), J.*1, S), UCGST(K),  COMTINUE  MUMIN(K), OFV(K), PROTK, TG, TG, TG, TG, TG, TG, TG, TG, TG, TG	READ(8.5)(STAR(1.0), 0+1,20)		00000
DO 20 K=1,5UM READ(B.(0)CNUMT(K) (1D(K.J),J=1,G),UCG5T(K). MAMI(K).DEV(K).PRO(K),TCG5T(K). WRITE(S.(0)COUNT(W),(1D(K.J),J=1,G),UCG5T(K). WRITE(S.(1)COUNT(W),(1D(K.J),J=1,G),UCG5T(K). MAMI(K).DEV(K),PRO(K),TCG5T(K). MAMI(K).DEV(K),PRO(K),TCG5T(K). MAMI(K).DEV(K),PRO(K),TCG5T(K). READ(B.22)(LIME(1,J),J=1,19) READ(B.22)(LIME(1,J),J=1,19) READ(B.22)(LIME(1,J),J=1,19) READ(B.23)(LIME(1,J),J=1,19) READ(B.23)(LIME(1,J),J=1,19) READ(B.23)(LIME(1,J),J=1,19) READ(B.23)(LIME(1,J),J=1,19) READ(B.23)(LIME(1,J),J=1,20) CO TO 1200 WRITE(S.25)(TITLE(1,J),J=1,20) FORMAT(TOAA) DO 28 K=1,5UM WRITE(S.25)(CAMT(K),(1D(K),J=1,50),TCG5T(K). MAMITE(S.25)(CAMT(K),(1D(K),J=1,50),TCG5T(K).	WRITE(5,5)(STAR(1,U),U=1,20)		0000u3
######################################	DO 20 K+1, SUM BEADEM (D)CRAWYER) (TDEK (1) (1+1 6)	1 10051(K)	00000
FORMAT(TI, 12, T6, 8A4, 123, F6, 1, T37, 14, T41, 14, T55, T4,  WRITE(5, 10) COUNT(N), (ID(N, U), U+1, 6), UCOST(N),  CONTINUE RED(6, 22) (LINE(1, U), U+1, 19)  WRITE(5, 22) (LINE(1, U), U+1, 19)  WRITE(5, 22) (LINE(1, U), U+1, 19)  WRITE(5, 22) (LINE(1, U), U+1, 19)  FORMAT(T9, T40, E 1, A2, T54, F6 1, A2, T67, E 1, A2)  WRITE(5, 24) TDCOST, DEWNON, 19COST, DEWNON, AMOUNT, DEWNON FORMAT(T9, T40, E 1, A2, T54, F6 1, A2, T57, F6 1, A2)  CO TO 1200  WRITE(5, 25) (TITLE(1, U), U+1, 20)  FORMAT(T, T20A, T54, F6 1, A2, T54, F6 1, A2, T57, F6 1, A2)  CO TO 1200  WRITE(5, 25) (TITLE(1, U), U+1, 20)  FORMAT(T, T20A, T54, F6 1, A2, T54, F6 1, A2, T57, F6 1, A2)  WRITE(5, 25) (TITLE(1, U), U+1, 20)  FORMAT(T, T20A, T54, F6 1, A2, T54, T6 1, A2, T54, T6 1, A2, T54, T6 1, A2, T54, T6 1,		051(K)	000003
T68.F10.11  WRITE(5.10)COUNT(N).(101K.J).J=1.6).UCGST(K).  MJM(K).DEV(K).PRO(K).TGGST(K).  CONTINUE  READ(8.22)(LIME(1.J).J=1.19)  WRITE(5.22)(LIME(1.J).J=1.19)  WRITE(5.22)(LIME(1.J).J=1.19)  WRITE(5.22)(LIME(1.J).J=1.19)  WRITE(5.22)(LIME(1.J).J=1.19)  WRITE(5.22)(LIME(1.J).J=1.19)  WRITE(5.25)(TITLE(1.J).J=1.20)  FORMAT(7/20A.)  WRITE(5.25)(TITLE(1.J).J=1.20)		14,141,14,155,14,	000003
WRITE(5,10)COUNT(K), (ID(K,J), J-1,6), UCOST(K).  MAN(K), OEV(K), PRO(K), TCOST(K).  CONTINUE  ROBERG (2,23)(LINE(1,J), J-1,19)  WRITE(5,23)(LINE(1,J), J-1,19)  WRITE(5,23)(LINE(1,J), J-1,19)  WRITE(5,23)(LINE(1,J), J-1,19)  WRITE(5,25)(TILLE(1,J), J-1,19)  WRITE(5,25)(TILLE(1,J), J-1,20)  FORMAT(7,20A,1)  WRITE(5,25)(TILLE(1,J), J-1,20)			00000
CONTINUE  READ(8,22)(LINE(1,J),J*1.19)  READ(8,22)(LINE(1,J),J*1.19)  ROBMAT(19,22)(LINE(1,J),J*1.19)  READ(8,23)(LINE(1,J),J*1.19)  READ(8,23)(LINE(1,J),J*1.19)  READ(8,23)(LINE(1,J),J*1.19)  READ(8,23)(LINE(1,J),J*1.19)  READ(8,23)(LINE(1,J),J*1.20)  READ(8,23)(TINE(1,J),J*1.20)  READ(8,25)(TINE(1,J),J*1.20)  FORMAT(120A4)  WRITE(8,25)(TINE(1,J),J*1.20)  FORMAT(20A4)  WRITE(8,25)(TINE(1,J),J*1.20)  FORMAT(20A4)  WRITE(8,25)(TINE(1,J),J*1.20)  FORMAT(20A4)  WRITE(8,25)(TINE(1,J),J*1.20)  FORMAT(20A4)  WRITE(8,25)(TINE(1,J),J*1.20)  FORMAT(20A4)  WRITE(8,25)(TINE(1,J),J*1.20)	WRITE(5, 10)COUNT(K), (1D(K, J), J+1,	6),UCOST(K).	000000
READ(8.22)(LIME(1.J).J.11.19) FORMAT(1944) READ(8.22)(LIME(1.J).J.11.19) FORMAT(1942) READ(8.22)(LIME(1.J).J.11.19) READ(8.22)(LIME(1.J).J.11.19) READ(8.22)(LIME(1.J).J.11.19) READ(8.22)(LIME(1.J).J.11.19) FORMAT(19.70) ROBMAT(19.70) ROBMAT(19.70) ROBMAT(19.70) ROBMAT(19.70) ROBMAT(19.70) ROBMAT(20.4)	_ {	CDST(K)	00000
FORMATICSALING (1941-119)  FORMATICSALING (1941-119)  REAC(8_23)TVCOST_OENDMO_TRCOST_OENDMO_NAMOUNT_DENDM  FORMATICTAG_F			00000
WRITE(S, 22)(LIME(1, 4), 4=1, 49)  MRITE(S, 22)(LIME(1, 4), 4=1, 49)  WRITE(S, 24)TDCOST, DENDMA, 19COST, DENDMA, AMOUNT, DENDMA FORMAT(TG, 24)TDCOST, DENDMA, 19COST, DENDMA FORMAT(TG, 24)TDCOST, DENDMA, 19COST, DENDMA FORMAT(TG, 25)(TITLE(1, 4), 4=1, 20)  GO TO 1200  WRITE(S, 25)(TITLE(1, 4), 4=1, 20) FORMAT(20A4) FORMAT(20A4)  WRITE(S, 25)(STR(1, 4), 4=1, 20) FORMAT(20A4)  WRITE(S, 25)(COUNT(K), (IN(K, 4), 4=1, 5), 4=1, 5)  WRITE(S, 25)(COUNT(K), (IN(K, 4), 4=1, 5), 4=1, 5)  WRITE(S, 27)(COUNT(K), (IN(K, 4), 4=1, 5), 4=1, 5)			00000
EACH A. 23 (PCOST, DEWONS, 1900/201, DEWONS, D			00000
# # # # # # # # # # # # # # # # # # #		MO. MMOUNT, DENOM	000000
CO TO 1200  WRITE(5,25)(TITLE(1,J), J-1,20)  FORMAT(20A)  WRITE(5,25)(TITLE(1,J), J-1,20)  FORMAT(20A)  WRITE(5,25)(TO 120A)  WRITE(5,25)(TO 120A)  WRITE(5,25)(TO 120A)  WRITE(5,25)(TO 120A)  WRITE(5,27)(COUNT(K), (IN(K,J),J-1,5), UCO57(K), WRITE(5,27)(COUNT(K), (IN(K,J,0,1,5),UCO57(K), MWRITE(5,27)(COUNT(K), (IN(K,J,0,1,5),UCO57(K), MWRITE(5,27)(COUNT(K), UTO57(K), UCO57(K), UCO57(K		MUNICIPAL DESCRIPTION OF THE PROPERTY CAND	00000
GO TO 1200  WRITE(S.25)(TITLE(1.J), J-1.70) FORMAT(//20A4) FORMAT(//20A4) FORMAT(20A4) FORMAT(20A4) WRITE(S.27)(COUNT(K), (IN(K, J), J-1.51, UCOST(K), MMCTE(S.27)(COUNT(K), (IN(K, J, DOCK), LOST(K), MMCTE(S.27)(COUNT(K), COV(K, L, POOK), LOST(K), MMCTE(S.27)(COUNT(K), COV(K, L, POOK), LOST(K), LOST(			00000
CD TO 1200  WRITE(S.25)(TITLE(1.J.), U-1.20)  FORMAT(//20A4)  FORMAT(20A4)  DO 28 W-1.50M  WRITE(S.27)COUNT(K), (IN(W.U), U-1.6), UOST(K),  MARTE(S.27)COUNT(K), (IN(W.U), U-1.6), UOST(K),  MARTE(S.27)COUNT(K), (IN(W.U), U-1.6), UOST(K),		/• *	00000
WRITE(5,25)(TITLE(1,J),J-1,20) FORMAT(//204) FORMAT(//204) DO 28 K-1,51m WRITE(5,27)COUNT(K),(IN(K,J),J-1,6),UCG5T(K), MRITE(5,27)COUNT(K),(IN(K,J),J-1,6),UCG5T(K), MRITE(5,27)COUNT(K),(IN(K,J),J-1,6),UCG5T(K),	GD TD 1200		00000
WRITE(5,25)(TITLE(4,J),J-1,20) FORMAT(//2044) WRITE(5,26)(STRE(4,J),J-1,20) FORMAT(2,204) DO 28 K-1,5UM WRITE(5,27)COUNT(K),(In(K,J),J-1,6),UCO5T(K), MRITE(5,27)COUNT(K),(In(K,J),Z-1,6),UCO5T(K),			00000
FORMAT(/2041) WEITE(5.20)(STAR(+,J),.J+1,20) FORMAT(204) DO 28 K+1,5UM WRITE(5.21) WAITE(5.21) WAITE(5			0000026
WRITE(S., 26) (STAR(+, 4), 4+1, 20)  DO 28 K+1, 5UM  WRITE(S., 21) COUNT(K), (ID(F, U), U+1, 6), UCOST(K),  WRITE(S., 21), DFV(K), DFO(K), TOST(K)			900000
FORMATIZOAA)  DO 28 K+1.5Um WRITE(5.57)COUNT(K),(ID(F.U),U+1,6),UCOST(K),  NUMMER) DEV(K),DEV(K),DEV(K),			00000
MRITE(S.27)COUNT(K) (IN(W.J), U+1.6) UCOST(K).	5 2		00000
	WRITE(5, 27)COM(K), (10(K, U), U+1.	6) UCOST(K).	000005
	MUMIKED, DEVIKE, PROTKE,	COST(K)	1,00000

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WRITE(5,100)
FORMAT(// MODIFY 1)DENTIFICATION, U)NIT COST, N)O, OF UNITS,'/
D)EVELOPMENT, P)RODUCTION, T)OTAL COST, E)XITT')
   28 CONTINUE
WEITE(5.29)(LINE(1,J),J-1,19)
29 FORMAT(1944)
WHITE(5.20)TOCOS, DENOMO, TPCOST, DENOMO, AMOUNT, DENOM
30 FORMAT(TB.,TOTALS,170,FB.1,A2,154,FB.1,A2)
/* DISPLAY ALTER MEMUS */
                                                                                                                                                                                                         STORE-O.O
WRITE(S.SO)
TORMAT(' WHICH RECORD WOULD YOU LIKE TO MODIFY?')
READ(S.+)RECNO
                                                                                                                                                                                                                                                           WRITE(5.8%)(TITLE(1.J).J-1.20)
FORMITE(5.8%)(STAR(1.J).J-1.20)
WRITE(5.8%)(STAR(1.J).J-1.6).UCGST(K).
WRITE(5.90)COUNT(K).(TO(K.J).J-1.6).UCGST(K).
MUMIK).DEV(K).PRO(K).TCGST(K).
1 FORMAT(T1.12.TG.54.173.F6.1.T33.14.14.155.14.
                                                                                                                                                                                                                                                                                                                                                                                                                                WRITE(5.120)
FORMALY, EWER TOTAL COST IN THOUSANDS...)
REAGIS...)TCOSTIK)
GO 10 6100
                                         :
                                                                                                                                                                                           /** MODIFY A RECORD
                                                                                                                                                                                                                                                                                                                                                                           IF(REPLY EQ. 1)GD 70 2000
IF(REPLY EQ. U)GD 10 3000
IF(REPLY EQ. 0)GD 10 3000
IF(REPLY EQ. 0)GD 70 5000
IF(REPLY EQ. P)GD 10 5500
IF(REPLY EQ. E)GD 10 1200
                                                                                                                                                     IFFANS . EQ. A)GD TO 7000
IFFANS . EQ. D)GD TO 8000
IFFANS . EQ. I IGG TO 9000
IFFANS . EQ. E)GD TO 9500
  168, F 10. 1)
                                                                                                                                                                                                                                                                                                                                                      READ(5,110)REPLY
110 FORMAT(A2)
                                                                                                                               READ(S.40)ANS
                                                                                                                                                                                                                                               K*RECNO
- 8
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(MOD) 1450
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WRITE(8.245)TOCOST, DENOM2, TPCOST, DENOM3, AMOUNT, DENOM
WRITE(8.245)TOTALS, T40, F8 1,A2, T54, F8 1,A2, T67, F8 1,A2)

16 FORMAT(18, TOTALS, T40, F8 1,A2, T54, F8 1,A2, T67, F8 1,A2)

17 FABD E0. ON IGO TO 1200

GO TO 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7000 WRITE (5.250)
250 FORMAT(' ONCE RECORD(S) ARE ADDED PRESS ''RETURN''', /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOCOST-SIDRE 2
TOCOST-SIDRE 2
TOCOST-SIDRE 2
TOCOST-SIDRE 3
TOCOST-SIDRE 3
TOCOST-SIDRE 4
TOCOST-SIDRE 7 1000
TOCOST-SIDRE 7 1
220 FORMAT(/' RECORD NO'. 12.' NOW LODKS LINE THIS ')
WRITE(S.,22)|(TRILE(1,J),J-1,20)
WRITE(S,22)|(SRINE(1,J),J-1,20)
221 FORMAT(2044)
WRITE(S,23)|COUNT(K),LID(K,J),J-1,6),UCOST(K)

MRITE(S,23)|COUNT(K),LID(K,J),J-1,6),UCOST(K)
                                                                                                                                                                                                                                                                                                                                                                         / SAVE CHANGES TO FILE ./
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /** ADD RECORD TO FILE **/
                                                                                                                                                                                                                                                                                           /** END MODIFY **/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DO 240 K=1, SUM
STORE-STORE+TCOST(K)
STORE-STORE2+(UCOST(K)+DEV(K))
STORE3-STORE2+(UCOST(K)+PRQ(K))
AMOUNT+STORE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "RITE(8,225)(TITIE(1,J),J+1,20)
WRITE(8,225)(SIAR(1,J),J+1,20)
225 FORMAT(20A4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STORE 3-0 O
STORE 3-0.0
DENOM: THOU
DENOM: 2-1HOU
DENOM: 3-1HOU
DENOM: 3-1HOU
IF (FLAG - EQ. DN) SUM- 5UM- 1
WRITE [8, 222) SUM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADD-DN
FLAG-ON
NOREC-SUM+1
DO 390 K-NOREC.SO
SUM-SUM+1
COUNTIK) - SUM
WRITE(5,260)
                                                                                                                                                                                                                                                                                                                                                                                                               REWIND 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240 CONTINUE
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(CM001216)
(CM0012170)
(CM0012
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STORE 2 = 0.0
STORE 2 = 0.0
STORE 3 = 0.0
WRITE(5,360)(TITLE(1,J),J-1,20)
WRITE(5,360)(TITLE(1,J),J-1,20)
WRITE(5,360)(TITLE(1,J),J-1,20)
BO 360 L-1,5UM
WRITE(5,360)(TITLE(1,J),B),UCOST(L),
WRITE(5,370)(COUNT(L),RD(L),PRO(L),TCOST(L),
TO FORMAT(1,12,16,64,123,F6,1133,14,141,14,155,14,16,14)
TO FORMAT(1,12,16,14)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WELTE(5, 387) TOCOST, DENOW2, TPCOST, DENOM3, AMOUNT, DENOM POPMATI(T8, 'TDTAL', T40, F8 1, 42, T54, F8 1, 42, T57, F8, T
PORMAT(*) ENTER HARDWARE IDENTIFICATION ')
READ($2.270 (10 (K.J), J*1, 6)
FERMAT($4.4)
FERME($5.26)
READ($5.20)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8000 FIAG-DFF
VBTEE(5.410)
410 FORMATÉ "HILLH RECORD WOULD YOU LIKE TO GELETE")
5 BEANÉE + INFEREE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WRITE(S, 320)
FORMAT('ENTER NUMBER OF DEVELOPMENT UNITS')
READ(S,*)DEVIK)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MRITE(5,330)
FORMAT(' ENTER NUMBER OF PRODUCTION UNITS ')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             / DISPLAY CHANGES ON TERMINAL ./
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1000) BMOUNT-570RE/1000
1000) DENDM-MTLL
1000) DECOST-570RE2/1000
E. 1000) DENDM2-MTLL
E. 1000) TPCOST-570BE3/1000
E. 1000) DENDM3-MILL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              / .. DELFTE A RECORD FROM FILE ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $108E-$108E-$108E-$10.1)
$108E-$108E2-$108C2-$10C51(L)
$108E2-$108E2-$10C51(L)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ##ITE(5,385)(LINE(1,J),J-1,19)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /** END ADD RECORD **/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                READ(S, .)PRO(K)
TCGST(K)*(UCGST(K)*NUM(K))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     370
                                                                                            270
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                     260
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C THE SENTINEL BRIGHT COST MODELS PROGRAM	0000000
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MARCH + 4003	00000000
	0000000
OASIS	00000000
FUNCTION : NUMS DASIS COST MODEL FOR SPECIFIC HARDWARE	000000000
CONFIGURATION AND SOFTWARE ESTIMATE	0000000
LOPMENT AND PRODUCTION COSTS.	00000000
SCHITZARE ESTERATES	09000000
DUTPUTS : COST CALCULATION RESULTS TO SPECIFIED	59000000
OUTPUT FILE	D0000067
	00000000
DIMENSION TITLE(1,23), NO(25), STEP(25,23), DATE(1,5)	06000000
	00000100
TEP. SUM, DENOM2, DENOM3, THOU, MILL, FLAG, ON, OFF, CASE,	00000110
	00000120
	00000130
1, w, / .will/,w, / .uv/.u/.u/.u/.u/.u/.u/.u/.u/.u/.u/.u/.u/.u/	00000140
10001	00000150
CASE O	00000160
/ GET DASIS MODEL ./	01100000
METALCO (O) SUM	000001190
	00000190
MEADIN 20)(TITLE(1, U), U-1, U)	000000500
	0000010
[TLE(1,J),J*1.23)	00000520
	00000230
MEMOLOGICAL CT.	00000240
	00000250
Maire (5, 30) (STEP(1, 0), 0-1, 23)	00000160
•	00000110
A THE CASE OF THE PARTY OF THE	000000180
	00000290
CAN IN SOM	000000000
GT 1150 TO 1200	00000330
	00000330
ITER TONAVIC DATE IS	60000
READ(5, 47) (DATE(1, L), L-1, S)	
	0500000
(1, 4), 4+1.5), CASE	00000365
WRITE(10,48)(DATE(1,J),J+1,S),CASE	00000370
FORMAT ( / / 130 . SA4 . / / / 13 . CASF 13	00000380
(,	00000381
06.00	00000382
DOMESTIC OF THE PORT OF THE PO	000001365
	00000386
	00000387
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•	OK K K K 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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CATHERINE M. COLECCHI  MARCH 1987  WAS ALR FORCE COST MODEL FOR SPECIFIC HARDWARE CONFIGURATION AND SOFTWARE FSTRATE  THARE ESTIMATES  SST CALCULATIONS TO SPECIFIED OUTPUT FILE  TITLE(1,23), NO(25), STEP(25,23), DATE(1,5)  SST CALCULATIONS TO SPECIFIED OUTPUT FILE  TITLE(1,23), NO(25), STEP(25,23), DATE(1,5)  SST CALCULATIONS TO SPECIFIED OUTPUT FILE  TITLE(1,23), NO(25), STEP(25,23), DATE(1,5)  SST CALCULATIONS TO SPECIFIED OUTPUT FILE  /* GET AIR FORCE MODEL */  SSUM  (TITLE(1,4), Jul., 23)  SUM  (TITLE(1,4), Jul., 24)  SUM  (TITLE(1,4), Jul., 25)  SUM  (TITLE(1,4), Jul., 25)  SUM  ENTER TODAY 'S DATE: ')  SUM   (TITLE(1,4), Jul., 23)  SUM  (TITLE(1,4), Jul., 23)  SUM  (TITLE(1,4), Jul., 23)  SUM  (TITLE(1,4), Jul., 23)  SUM  (TI	MEDOLE USAF FUNCTION USAF COMPLICATION USAF COMPLICATION USAF FUNCTION U		AFENTINE RECORT COAT MODEL A PROCESS	5000000
MARCH 1987	MARCH 1987	!	M. COLFCCHI	00000
HINDOLE IN USAF  FUNCTION - RUNS AIR FORCE COST MODEL FOR SPECIFIC HARDWARE  INPUTS: TOTAL HARDWARE DEVELOPMENT AND PRODUCTION COSTS.  OUTPUTS: COST CACCULATIONS TO SPECIFIED DUTPUT FILE  DIMENSION TITLE(1,23) MGZS, STEP(25,23) DATE(1,5)  COMMON FLAG.ESI DEVCST, PROSTS DEVENOR OF MODEL -/  REAL -A DEVCST, PROCST, EST AFCOST, HARDWARE  LOST DATA THOU/KY, MILL/WY, ON/YIY, ON/YIY, ON/YILL, FLAG.ON, OFF. CASE.  AREA - A DEVCST, PROCST, EST AFCOST, HARDWARE  LOST DATA THOU/KY, MILL/WY, ON/YIY,	HINDOLLE USAF FUNCTION CHARGE GOT MODEL FOR SPECIFIC HADDWARE FUNCTION CHARGE GOTAL HADDWARE DEVELOPMENT AND PRODUCTION COSTS.  OUTFULS: COST CACCULATIONS TO SPECIFIED DUTPUT FILE DIMENSION TITLE(1,23) MODES, SEFEC, 23) DATE(1,5) COMMENTED BY INTEGER NO STEP, SUM, DEVENDED SPECIFIED DUTPUT FILE DIMENSION TITLE(1,23) MODES, SEFEC, 23) DATE(1,5) COMMENTED BY INTEGER NO STEP, SUM, DEVENDED SPECIFIED DUTPUT FILE DATA THOU'NE', MILL'W', ON', 1', ON', ON', 1', ON', ON', 1', ON', ON', ON', ON', ON', ON', ON', ON			00000
MODULE : USAN AIR FORCE COST MODEL FOR SPECIFIC HARDWARE COMPRIANCE STRAINE COMPRIANCE STRAINE COMPRIANCE AND SOFTWARE FSTRAINE COMPRIANCE AND SOFTWARE FSTRAINE COMPRIANCES. TOTAL ARROWARD BE VELLORING AND SOFTWARE FSTRAINE.  SOFTWARE ESTIMATE:  SOFTWARE ESTIMATE:  OUTPUTS: COST CACCULARITIONS TO SPECIFE DOJPOJT FILE  DIMENSION TILLE (1, 23) MOD COST, ST. RECOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MOD MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 1, ST. REAL 40 EVCST, PROCST, EST. AFCOST, MODEL 2, ST. REAL 40 EVCST, AST. AFCOST, MODEL 2, ST. REAL 4, ATTREE 50 EST. MILL.  SOFT OF AFCOST, AST. AST. AST. AST. AST. AST. AST. AST.	MODULE : USA CONFIDANTION = NOTE FOR SPECIFIC HARDWARE CONFIDANTION = NOTE FOR STRAINE CONFIDANTION = NOTE FOR SPECIFIED DUTPUT FILE DIMENSION TILLE (1.23) MOL 25. STEP (25.23) DATE (1.5) COMMON TILLE (1.23) MOL 25. STEP (25.23) DATE (1.5) COMMON TILLE (1.23) MOL 25. STEP (25.23) DATE (1.5) COMMON TILLE (1.23) MOL 25. STEP (25.23) DATE (1.5) COMMON TILLE (1.23) MOL 25. STEP (25.23) DATE (1.5) COMMON TILLE (1.23) MOL 25. STEP (25.23) DATE (1.5) COMMON TILLE (1.23) MOL 25. STEP (25.23) TAPOCST (25.23) TAPOC	******************		0000
FUNCTION - RAWS AIR TORGE COST MODEL FOR SPECIFIC HADDRANG  INPUTS: TOTAL HARDRANGE DEVELOPMENT AND PRODUCTION COSTS.  SOFTWARE ESTIMATES  OUTPUTS: COST CACULATIONS TO SPECIFIED DUFPUT FILE  DIMENSION TITLE (1,23), NO(25), STEP(25,22), DATE (1,5)  COMMON FLAG.ESI DEVEST PROCEST DEVENOR DAYON IN THE LAG.ON OFF. CASE  REAL 46 DEVEST PROCEST, EST AFCOST, NUMBER CASE  DATA THRUN'K', MILL'M', ONN'T', OFF/O''  REAG 9: 10)SUM  (0 FORMAT (123)  REAG 9: 10)SUM  (1 FORMAT (224)  DO GALL SWEST  PREAG 9: 00)SUM  (2 FORMAT (224)  PREAG 9: 00)SUM  (3 FORMAT (224)  PREAG 9: 00)SUM  (4 FORMAT (224)  PREAG 9: 00)SUM  (5 FORMAT (224)  PREAG 9: 00)SUM  (6 FORMAT (224)  PREAG 9: 00)SUM  (7 FORMAT (224)  PREAG 9: 00)SUM  (8 FORMAT (224)  PREAG 9: 00)SUM  (9 FORMAT (224)  PREAG 9: 00)SUM  (1 FORMAT (224)  PREAG 9: 00: 100010EVGST PREAG STIMATE  PREAG 9: 00: 100010EVGST PREAG STIMATE  FREAG 9: 00: 100: 100: 100: 100: 100: 100: 10	FUNCTION - RAWS AIR TORGE COST WODE LED STRATE  INDUTS: TOTAL HARDMARE DEVELOPMENT AND PRODUCTION COSTS.  SOFTWARE ESTIMATES  DIMENSION TITLE (1, 23) AND CSS NOTE (1, 5)  COMMON FLAD. EST CACCULATIONS TO SPECIFEED DUPDY FILE  DIMENSION TITLE (1, 23) AND CSS NOTE (1, 5)  COMMON FLAD. EST CACCULATIONS TO SPECIFEED DUPDY FILE  DATE  REAL 4 DEVCST, PROCEST, EST AFCOST, NANCOST  DATA THOUN'N', MILL'M', ONN'T', OFF'/O',  REAL 4 DEVCST, PROCEST, EST AFCOST, NANCOST  DATA THOUN'N', MILL'M', ONN'T', OFF'/O',  REAL 4 DEVCST, PROCEST, EST AFCOST, NANCOST  DATA THOUN'N', MILL'M', ONN'T', ONN'T', OFF'/O',  REAL 4 DEVCST, PROCEST, EST AFCOST, NANCOST  DATA THOUN'N', MILL'M', ONN'T', ONN'T', OFF'/O',  REAL 6 DEVCST, PROCEST, EST AFCOST, NANCOST  OF OFF AND CST ONN'T (1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 1, 1, 1, 1, 2)  OF OFF AND CST ONN'T (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	MODULE US		00000
INPUTS : TOTAL MARDAR   ION PRICE	IMPUTS   TOTAL MARCHAE DEVELOPMENT AND PRODUCTION COSTS.	FUNCTION	200	
IMPUTS   STOTAL MARCHARE DEVELOPMENT AND PRODUCTION COSTS,	IMPUTS : 1074L MARCHARE DEVELOPMENT AND PRODUCTION COSTS.   SOFTHER ESTIMATE STITLE   30.00129.1   30.00129		BAC SOLIEBER PSICERE	
DIMENSION TITLE (1.23), MO(28) STEP(28, 23), DATE (1.5)  COMMENT COST CACCULATIONS TO STECTS ED DATE (1.5)  COMMENT COST CACCULATIONS TO STECTS.  INTEGER NO, STEP SUM, DETAINS DEFINED DETAINS DATE (1.5)  CASE O TO THE COST SET AFOOT, THOOST DATE (1.5)  CASE O (1.5) SUM OF THE (1.4), July (1.23)  OF FORMAT (1.2)	DIMENSION TITLE (1,23), MG(28), STEP(28,23), DATE (1,5)  COMMINE STEP STATES STATES  INTEGER NO, STEP, SUM, DEMONY DEMONA DEMONA  INTEGER NO, STEP, SUM, DEMONY DEMONA  INTEGER NO, STEP, SUM, DEMONY DEMONA  INTEGER NO, STEP, SUM, DEMONA DEMONA  INTEGER NO, STEP, SUM, DEMONA  INTEGER STATES  INTEGER	INPUTS	SEVELOPMENT AND PRODUCTION COSTS.	00000
DIMENSION TITLE (1.3.1), MICES, 318 (ECES.)  DIMENSION TITLE (1.3.2), MICES, 318 (ECES.)  COMMANY FLAG ES, CEVCEST, FRECEST DEGUNZ, DEFUNDA  INTEGER ND, STEP, SUM, DENONZ, DENONZ, THOU, MILL, FLAG, DN, DFF, CASE.  DATA THOU, 'N', MILL' 'M', ON/' '1', DFF,' O',  FLAG-OFF  CASE-OF  CASE-OF  CASE-OF  CASE-OF  CASE-OF  CASE-OF  CASE-OF  CASE-OF  (* GET AIR FORCE MODEL */  READ(8, 20)(TITLE (1, J), J-1, 23)  OF GOMMAT(2, 23)  WHITE(8, 20)(TITLE (1, J), J-1, 23)  OF GOMMAT(2, 23)  WHITE(8, 20)(TITLE (1, J), J-1, 23)  OF GOMMAT(2, 23)  OF GOMMAT(2, 23)  WHITE(8, 20)(TITLE (1, J), J-1, 23)  OF GOMMAT(2, 24)  OF GOMMAT(2, 24)  WHITE(8, 20)(TITLE (1, J), J-1, 23)  OF GOMMAT(2, 24)  WHITE(8, 20)(TITLE (1, J), J-1, 23)  OF GOMMAT(2, 24)  WHITE(8, 20)(TITLE (1, J), J-1, 2), CASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// TO, SAG - /// T), CASE', 13, CASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), CASE', TASE  OF GOMMAT(// T), CASE', TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1, T), TASE  WHITE(8, 20)(TASE (1, J), J-1, 2), CASE  OF GOMMAT(// T), TASE  WHITE(8, 20)(TASE (1,	DIMENSION TITLE (1.3.) MICES, STREETHED DOINGT FIRE  DIMENSION TITLE (1.3.) MICES, STREETED DOINGT FIRE  COMMAN FLAG. EST. DEVCST. PROCST. DEVCHAZ. DEVONAT.  INTEGER NO. STEP. SUM. DENONS. DENONS. THOU. MILL. FLAG. DN. DFF. CASE.  DATA THOU, NY. / MILL/ NY. / DEF/ O/  READ(9. 10) SUM  (0. 20) (TITLE (1.3)) JU-1.23)  OR GOMMAT(2.3.4)  WRITE (1.3.0)  OR 40 [1-1.5]  OR 50 [1.5]  OR 50 [1.			
DIMENSION TITLE(1,23), WO(25), STEP(25,23), DATE(1,5)  COMMIN FLAG, EST, DEVCST, PROCST, DEWOND, DAVING,  INTEGER MD, STEP, SUW, DEWOND, DEWOND, DAVING,  FAB. & DEVCST, PROCST, EST, AF COST, WACCST  DATA HOULY, W., MILL/"W., DAVING,  FRAGO, SO)  OF GRANT (120)  WRITE(1,20)  OF GRANT (120)  OF GRANT (1	DIMENSION TITLE (1,23), NG(25), STEP(25,23), DATE(1,5)  LOMBON FLAG, EST, CRYCST, PROCST, DEMONA, JUTL, FLAG, ON, OFF, CASE.  REAL - DEVCST, PROCST, EST, AF COST, PROCE  READ - DEVCST, PROCST, EST, AF COST, PROCE  CASE - DEVCST, PROCST, EST, AF COST, PROCE  OF COMMAT(23,2)  OF COMM	212618	מסוגמו נודר	
COMMUNE FLAG. EST. (1973) TO COMMUNE LEAGON OF CASE.  INTEGEN NO. STEP. SUM DENDM2.DENDM3.THOU.MILL.FLAG.ON.OFF.CASE.  INTEGEN NO. STEP. SUM DENDM2.DENDM3.THOU.MILL.FLAG.ON.OFF.CASE.  DATA THOU! W. /. MILL/. M. /. ON/. 1 /. OFF. / O / FLAGOTO STEP. SOM THE CASE.  CASE.  CASE.  CASE.  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE (1. J) . Jul. 23 )  O GOTO TO SUM  READIG. 20 (TITLE SUM TO SUM TO SUM TO SUM TO SUM  READIG. 20 (TITLE SUM TO	COMMENS FLAG. EST. OF VOST. PROCST. DEMONS. DE	A COL 1 / 2 / LEA MONEY STATES		
INTEGER   NO, STEEL, CON, OFF, CASE.     REAL - DATE   DATE     REAL - DATE   DATE     REAL - DEVEST   PROCST, CST, LANCOST     REAL - DEVEST   PROCST, CST, LANCOST     CASE.   OATA THOUL / N. / MILL / N. / ON / 1 / / OFF / O / /   FLAG-OFF   OATA THOUL / N. / MILL / N. / ON / 1 / OFF / O / /   REAL OF - OO / (TILL / N. / O.	NITEGER   NOTE	COMPANY OF THE PROPERTY	BROCK SENDER DENDERS	0000
	REAL & DEVCST PROCEST, EST JACOST, NACOST DATA TRUDU'N', MILL''M', ON' 11', OFF'10'	TATE OF A CARE O	AND DEMONS THOU WILL FLAG ON DEF CASE	0000
REAL = 4 DEVCST, PROCST	##AL -4 DEVCST, PROCST, WCOST Data THQU/** / MILL/***/.OW/***/.OF/**/O/ FLAG-DF; CASE-O  ##AD (9, 10) SUM (0 GET AIR FORCE MODEL -/ FRAD (9, 10) SUM (10 GET AIR FORCE MODEL -/ READ (9, 20) (TITLE (1, J), Jul. 23) OD 40 [11, SUM READ (9, 20) (TITLE (1, J), Jul. 23) OD 40 [11, SUM READ (9, 20) (TITLE (1, J), Jul. 23) OD 40 [11, SUM READ (9, 20) (TITLE (1, J), Jul. 23) OD 40 [11, SUM READ (9, 20) (TITLE (1, J), Jul. 23) OD 70 CASE-CASE (1, Jul. 20) IF (CLAS ECT OF ON THE TODAY 'S DATE: ) READ (9, 20) (TITLE (1, J), Jul. 2) AF FORMAT (2, M) AF FORMAT (3, M) AF FORMAT (3, M) AF FORMAT (3, M) AF FORMAT (4, M) AF FORM	DATE		00000
Data THOU)	DATA THOU)	BEAL OF DEVICET PROCST ES	IT APCOST HECOST	00000
		DATA THOU/'K'/, MILL/'W'	/.ON/ 11/, OFF/ '0'/	00000
CASE+0  READ(9, 10) SUM  READ(9, 20) SUM  READ(9, 20) STITLE(1, 2), 3+1, 23)  OF GREAT(12)  READ(9, 20) (TITLE(1, 3), 3+1, 23)  OF GREAT(22A3)  WHITE(5, 20) (STEP(1, 3), 3+1, 23)  OF GREAT(2A3)  WHITE(5, 20) (STEP(1, 3), 3+1, 23)  OF GREAT(2A3)  WHITE(5, 30) (STEP(1, 3), 3+1, 23)  OF GREAT(1, SWEST  IF(LAS EGT)  READ(8, 3+1) (DATE (1, 3), 3+1, 2)  AS FORMAT(2A3)  WHITE(5, 48) (DATE(1, 3), 3+1, 5), CASE	CASE+O  READ(9, 10) SUM  READ(9, 20) (TILE(1, J), J+1, 23)  20 GGRAAT(123)  WRITE(15, 20) (TILE(1, J), J+1, 23)  OG O LE1, SUM  READ(9, 30) (TILE(1, J), J+1, 23)  OG O LE1, SUM  READ(9, 30) (STEP(1, J), J+1, 23)  OG O LE1, SUM  READ(9, 30) (STEP(1, J), J+1, 23)  OG O LE1, SUM  READ(9, 30) (STEP(1, J), J+1, 23)  OG O LE1, SUM  READ(9, 30) (STEP(1, J), J+1, 23)  OG CALL SUEST  CASE-CASE+1  CASE	FLAQ-0FF		100000
GET AIR FORCE MODEL	GET AIR FORCE WODEL	CASE +O		00000
REAGIS. (D) SUM	READIS, (D) SUM   READIS, (D) (TITLE(1,J), J+1,23)     READIS, (D) (TITLE(1,J), J+1,23)     READIS, (20) (TITLE(1,J), J+1,23)     DO 40 [=1,50M     READIS, (20) (STEP(1,J), J+1,23)     DO 40 [=1,50M     READIS, (20) (STEP(1,J), J+1,23)     GORMAT(2A3)     GORMAT(2A3)     GORMAT(2A3)     GORMAT(AMEST     CONTINUES     GORMAT(AMEST     GORMAT(A			00000
10 FORMAT(12) 20 FORMAT(12) 21 FEAC(9, 20)(TITLE(1, J), Jul. 1, 23) 22 FORMAT(23, 20) 23 FORMAT(23, 20) 24 FORMAT(23, 20) 35 FORMAT(23, 20) 36 FORMAT(23, 20) 37 FORMAT(23, 20) 38 FORMAT(23, 20) 38 FORMAT(23, 20) 39 FORMAT(23, 20) 30 FORMAT(23, 20) 30 FORMAT(23, 20) 30 FORMAT(23, 20) 31 FORMAT(23, 20) 31 FORMAT(23, 20) 31 FORMAT(23, 20) 32 FORMAT(3, 20) 32 FORMAT(3, 20) 33 FORMAT(3, 20) 34 FORMAT(3, 20) 35 FORMAT(3, 20) 36 FORMAT(3, 20) 37 FORMAT(3, 20) 38 FORMAT(3, 20) 38 FORMAT(3, 20) 39 FORMAT(3, 20) 30 FORMAT(3, 20) 30 FORMAT(3, 20) 30 FORMAT(3, 20) 31 FORMAT(3, 20) 31 FORMAT(3, 20) 32 FORMAT(3, 20) 32 FORMAT(3, 20) 33 FORMAT(3, 20) 34 FORMAT(3, 20) 35 FORMAT(3, 20) 36 FORMAT(3, 20) 37 FORMAT(3, 20) 38 FORMA	10 FORMAT(12) 20 FORMAT(12) 20 FORMAT(12) 21 FEAD(9,20)(TITLE(1,J),J+1,23) 22 FORMAT(2343) 24 FORMAT(2343) 35 FORMAT(2343) 36 FORMAT(2343) 37 FORMAT(2343) 38 FORMAT(2343) 39 FORMAT(2343) 39 FORMAT(2343) 30	READ(9, 10)5UM		00000
READIS, 20)(TITLE(1,J), J*1,23)  OF GORMAT(22A2)  OF GORMAT(22A2)  OF GORMAT(22A2)  OF GORMAT(22A2)  OF GORMAT(2A2)  OF GORMAT(A2A2)  OF GORMAT(A2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A2A	READ(9.20)(TITLE(1.J), J*1,23)  OF GORMAT(2.24.2)  OF CONTINUE  OF CO			00000
20 FORMAT (2343) 00 40 [=1,5UM READ(9,30)(STEP(1,J),J=1,23) 00 40 [=1,5UM READ(9,30)(STEP(1,J),J=1,23) 40 CONTINUE 4 GET SOFTWARE ESTIMATE / 40 CONTINUE 4 GET SOFTWARE ESTIMATE / 40 CONTINUE 4 FORMAT (248) 4 FORMAT (4,248) 4 FORMAT (4,44)	20 FORMAT (23.23)  00 40 [=1,5UM RT (23.23)  00 0 1=1,5UM RT (23.23)  00 0 1=1,5UM RT (23.23)  40 CONTINUE  50 CONTINUE  51 CON CONTINUE  51 CON CONTINUE  52 CASE CASE TO TO 0		J*1.23}	0000
WELTE (\$.20) (TITLE (1.J), Jul. 1.23)  DO 40 (=1.5UM  READ(9.30) (STEP (1.J), Jul. 1.23)  40 CONTINUE  CONTINUE  CASE CASE + 1  CASE CASE + 1  TE (AS E CASE + 1  TE	WELE (\$.2.0) (TITLE (1.J.).J-1.23)  50 GORMAT (2.M.)  READ (9.30) (STEP (1.J.).J-1.23)  40 CONTINUE  CASE (2.S.) (STEP (1.J.).J-1.23)  40 CONTINUE  CASE (2.S.) (STEP (1.J.).J-1.23)  42 CONTINUE  CASE (2.S.) (STEP (1.J.).J-1.23)  43 FIFLAG (2.S.) (STEP (1.J.).J-1.23)  44 FORMAT (5.M.)  FORMAT (5.M.)  45 FORMAT (5.M.).J-1.5)  46 FORMAT (5.M.)  47 FORMAT (5.M.).J-1.5).CASE  WRITE (1.J.,J-1.2).CASE (1.J.)  48 FORMAT (5.M.).J-1.5).CASE  WRITE (1.J.,J-1.2).CASE (1.J.)  49 FORMAT (7.T.).CASE (1.J.)  FORMAT (7	FORMAT(23A3)		00000
DO 60 [11, 50]  DO 61 [11, 50]  DO 62 [11, 50]  DO 63 [11, 50]  DO 64 [11, 50]  DO 65 [11, 50]	DO 60 (21) SUM  READ(9, 20)(STEP(1, J), J-1, 23)  O FORMIT(2A3)  40 CONTINUE  (1000 CALL SWEET  CASE-CASE+1  TECASE (11, 100 A) (10 - 1, 23)  41 COMMITE(1, 20) (10 - 10 A)  TECASE (11, 100 A) (10 A)  TECASE (11, 100	11E(5.20)(TITLE(1.J)	. J*1.23)	00000
### ##################################	### #### #############################	DO 40 I=1, SUM	•	00000
00 CONTINUE (5.30) (STEP(1.J), J*1,23) 40 CONTINUE (5.30) (STEP(1.J), J*1,23) 40 CONTINUE (5.30) (STEP(1.J), J*1,23) 40 CONTINUE (5.30) 40 CONTINUE (5.30) 41 FORBAT (7.30) 42 FORBAT (7.30) 43 FORBAT (7.30) 44 FORBAT (7.30) 45 FORBAT (7.30) 46 FORBAT (7.30) 47 FORBAT (7.30) 48 FORBAT (7.30) 49 FORBAT (7.30) 40 F	90 FORMAT(22A3) 40 CONTINUE 4 GET SOTWARE ESTIMATE 4 GET SOTWARE ESTIMATE 5 CASECASE+1 CASECASE+1 CASECASE+1 FIFTLAG = CC. OWIGO TO 2000 IF (CASE GT. 1)CO TO 1200 WITTE(5.45) 4 FORMAT(5.45) 5 CASECASE+1 5 CASECASE+1 6 CO TO 1250 6 CO TO TO 1250 6 CO TO		(EC.1*P.	00000
40 CWITERS, 30) (STEPTI, J), J-1, 23 40 CWITERS, 30) (STEPTI, J), J-1, 23 40 CALL SWEST CASE-CASE, 41 50 CALL SWEST CASE-CASE, 41 50 CASE-CASE, 41 50 CASE, 43 50 CASE, 43 60	######################################			70000
1000 CALL SMEST 1000 CAT CAS	1000 CALL SWEST 1000 CALL SWEST 1000 CALL GENEST 1000 CALL GENEST 1000 CALL GENEST 100 CALL GENEST 100 CALCULATE AND TO 2000 100 CASE CASE 100 C	- 8	. 0 - 1 . 23	
15 CALL SWEST  CASE-CASE+1  CASE-CASE+1  CASE-CASE+1  IF (CASE - CASE+1  F (CASE+1  F	TOOO CALL SWEST CASECASE+1  CASECASE+1  FFLAG GT. 410G TO 2000  IF (CASE GT. 410G TO 2000  IF (CASE GT. 410G TO 1200  WRITE(S.47) (DATE(1.J).J+1.5).CASE  WRITE(S.48) (DATE(1.J).J+1.5).CASE  WRITE(10,48) (DATE(1.J).J+1.5).CASE  AS FORMAT(//T30.SA4.///T3.CASE.13.  CO TO 4200  FF (DEMAND 7. CASE.13.  CALL GETM  REWIND 7.  CALL GETM  REWIND 7.  CALL GETM  REWIND 7.  CALCULATE AIR FORCE COST */  IF (DEMAND 2. EO. THOU) DEVOST-TRUCST/1000  IF (DEMAND 3. EO. THOU) PROMAS-WILL	40 CONTINUE		
	CASE CASE   CASE CASE CASE CASE CASE CASE CASE CASE	9000 0000		
	F(ELAB   CT   100 TO 2000   F(ELAB   CT   100 TO 1200   F(EAB   100 TO 1200   F			
		TELETA EN MAION TO	4	
## ## ## ## ## ## ## ## ## ## ## ## ##	##!TE(5.48) ##!TE(5.58) ##!TE(			00000
49 FORMAT(/ ENTER TODAY'S DATE:)  - READIS,47)(DATE(1,U),U=1,S)  4 FORMAT(SAT)(DATE(1,U),U=1,S)  WRITE(10,48)(DATE(1,U),U=1,S).CASE  WRITE(10,48)(DATE(1,U),U=1,S).CASE  48 FORMAT(//T30,SA4///73,CASE',13,  GD TO 1250  WRITE(10,49)CASE  49 FORMAT(//T3,CASE',13,  WRITE(10,49)CAST MILL  50 FORMAT(//T31,CASE',13,  CALL GETHW  REWIND 7  CALCULATE AIR FORCE COST */  IF(DENDMAZ EQ. HOU)DEWONDZ-MILL  IF(DENDMAZ EQ. HOU)DEWONDZ-MILL  IF(DENDMAZ EQ. HOU)PROCSI-PROCST(1000)	49 FORBAT(() ENTER TODAY'S DATE:)  REAGNS, 47) (DATE(1, J), Jo+1.5)  WRITE(15, 48) (DATE(1, J), Jo+1.5), CASE  WRITE(10, 48) (DATE(1, J), Jo+1.5), CASE  48 FORBAT((, T30, SA4, ///73, CASE', 13,  GD TO 1250  1200 WRITE(15, 49) CASE  WRITE(10, 49) CASE  49 FORBAT(//73, CASE', 13,  WRITE(10, 50) EST, MILL  50 FORBAT(//714, THE SOFTWARE ESTHATE 15.', F6.2, A2)  CALL GETHW  REWIND 7  IF (DENOMA? E0. THOU) TRONGS TO NO.	WRITE(5,45)		00000
## ## ## ## ## ## ## ## ## ## ## ## ##	** READIS. 47) (DATE(1.J), J-1.5)  47 (DRMAT(\$A4)  WRITE(\$A4) (DATE(1.J), J-1.5), CASE  WRITE(\$10,48) (DATE(1.J), J-1.5), CASE  48 (DRMAT(//T30,584,///T3,*CASE*,13,**********************************		'S DATE: ')	00000
47 FORMAT(\$44) WRITE(\$5.48) (DATE(\$1,0), 0-1,5), CASE WRITE(\$10,48) (DATE(\$1,0), 0-1,5), CASE WRITE(\$10,50) (ST. MILL	47 FORMAT(\$4.48) (DATE(1.J), J-1.5), CASE WRITE(5.48) (DATE(1.J), J-1.5), CASE WRITE(1.48) (DATE(1.J), J-1.5), CASE WRITE(1.48) (DA4.///13, 'CASE', 13, 'CASE', 14, 'CASE', 14, 'CASE', 14, 'CASE', 15, 'CASE', 15		£.1.5	00000
WRITE(19, 48) (DATE(1, J), J-1, S), CASE  WRITE(19, 48) (DATE(1, J), J-1, S), CASE  48 FORMAT(//T30, SA4.//T3, 'CASE.'13,  GO TO 1250  1200 WRITE(5, 49) CASE  49 FORMAT(//T3, 'CASE.'13,  WRITE(10, 49) CASE  49 FORMAT(//T3, 'CASE.'13,  WRITE(10, 49) CASE  49 FORMAT(//T14, 'T16, S0F TARRE FSTIMATE 1S.'F6.2, A2)  CALL GETHA  REWIND 7 CALCULATE AIR FORCE COST */  IF (DENOMAZ FO. THOU) DEVCST FOR VCST / LOOO  IF (DENOMAZ FO. THOU) DEVCST FOR VCST / LOOO  IF (DENOMAZ FO. THOU) DEVCST FOR VCST / LOOO  IF (DENOMAZ FO. THOU) DENOME WILL  IF (DENOMAZ FO. THOU) DENOME WILL  IF (DENOMAZ FO. THOU) DENOME WILL	WRITE(19, 48) (DATE(1, J), J-15), CASE  WRITE(19, 48) (DATE(1, J), J-15), CASE  48 FORMAT(//T30, 544,//T3, 'CASE, 13,  60 TO 1250  FORMAT(//T30, CASE, 13,  FORMAT(//T3, 'CASE, 'CA	FORMAT (SA4)		00000
### ##################################	##RIE(10,48)[DAFE(1,J),J-1.5],CASE 48 FORMAT(//T30,544,///T3,'CASE',13,'  GD TO 1290  GD TO 1290  GD TO 1290  FORMAT(//T3,'CASE',13,'  FORMAT(//T3,'CASE',13,'  FORMAT(//T3,'CASE',13,'  FORMAT(//T3,'CASE',13,'  FORMAT(//T3,'CASE',13,'  FORMAT(//T3,'CASE',13,'  FORMAT(//T4,'THE SOFTAMPE ESTIMATE 1S',F6.2,A2)  CALL GETHW  REWIND 7  FORMOM 7: FOR THOUSE	ŝ		70000
CONTRIBUTE (S. 49) CASE (13, 1713, CASE (13, 1	## TO 1300	WRITE(10,48)(DATE(1,3)	1.CASE	
GD TO 1290  GD TO 1290  WRITE(10,49)CASE  49 FORMAT(//13, CASE.,13,  1250 WRITE(15,50)EST.MILL  50 FORMAT(//114, THE SOFTAMPE ESTIMATE 1S.',F6.2,A2)  CALL GETMW  REWIND 7  CALCULATE AIM FORCE COST./  IF(DENDMA RO THOU)DENCST-DENCST/NOO.  IF(DENDMA RO THOU)DENCST-MILL  IF(DENDMA RO THOU)PROSEST-MILL  IF(DENDMA RO THOU	CD TO 1290 CD TO 1290 CD VAILE (5.49)CASE 49 FORMATE (10.49)CASE (13.7) 1790 WRITE (5.50)EST, MILL WRITE (10.50)EST, MILL FORMATE (1714, THE SOFTWARE ESTIMATE 1S. 'FG. 2.A2) CALL GETHW REWIND 7 CALCULATE AIR FORCE COST / IF (DENOMA EO THOU) DEVCST-REVCST/1000. IF (DENOMA EO THOU) PROMON-MILL	•		
1200 WRITE(5,49)CASE  1200 WRITE(10,49)CASE .13.  1200 WRITE(10,50)EST, MILL  50 FORMAT(//714, THE SOFTWARE FSTIMATE IS.'.F6.2,A2)  CALL GETHAR ARPWARE TOTALS ./  CALL GETHAR FSTIMATE IS.'.F6.2,A2)  FEWIND 7  CALCULATE AIR FORCE COST ./  IF(DENOMA: E0. THOU)DENOM2:MILL  IF(DENOMA: E0. THOU)DENOM2:MILL  IF(DENOMA: E0. THOU)DENOM3:MILL  IF(DENOMA: E0. THOU)DENOM3:MILL	1200 WRITE(5,49)CASE WRITE(10,49)CASE 49 FORMAT(//13, CASE',13, ' 1250 WRITE(10,50)EST MILL 50 FORMAT(//114, THE SOFTAMRE ESTIMATE 1S',F6.2,A2) CALL GETMW REWIND 7 FORMOMO EQ. THOUJDECST TREST // COST // IF(DENOMO EQ. THOUJDECST TREST // COST //	Ş		
WFITE(10.49)CASE  49 FORMAT(//T3.CASE'.13.  1750 WRITE(10.50)EST MILL  WRITE(10.50)EST MILL  50 FORMAT(//T44' THE SOFTWARE ESTIMATE 1S.'.F6.2.A2)  CALL GETHA  REWIND 7  1 GET HARDWARE TOTALS "/  CALL GETHA  1 FORWAR 2: 0. THOU)DEVCST-DEVCST/1000.  1 FORWAR 2: 0. THOU)DEVCST-DEVCST/1000.  1 FORWAR 2: 0. THOU)DEVCST-DEVCST/1000.  1 FORWAR 3: 0. THOU)DEVCST-DEVCST/1000.	WFITE(10.49)CASE  49 FORMAT(//T3.CASE'.13.' 1250 WFITE(5.50)ET MILL  50 FORMAT(//T14.THE SOFTWARE FSTIMATE 1S.'.F6.2.A2)  CALL GETHW  REWIND 7  1 FORWAND 2  1 FORWAND 2  1 FORWAND 3  1 FO			0000
49 FORMAT(//T3, CASE', 13, '''''''''''''''''''''''''''''''''	49 FORMAT (//T3, CASE', 13, ''') 1790 WRITE (10, 50) EST MILL 50 FORMAT (//T3, 'THE SOFTWARE ESTIMATE 15.', F6.2, A2) CALL GETHW REWIND 7 CALL GET HARDWARE TOTALS */ IF (DENOMA 2: 0. THOU) DENOM 2: 1. THOUSE COST */ IF (DENOMA 2: 0. THOU) DENOM 2: 1. THOUSE CST */ IF (DENOMA 2: 0. THOU) DENOM 2: 1. THOUSE CST */ IF (DENOMA 2: 0. THOU) DENOM 2: 1. THOUSE CST */ IF (DENOMA 2: 0. THOU) PROM 2: 1. THOUSE CST */ IF (DENOMA 2: 0. THOU) PROM 2: 1. THOUSE CST */ IF (DENOMA 2: 0. THOU) PROM 2: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOU) PROM 3: 1. THOUSE CST */ IF (DENOMA 3: 0. THOUSE CST */ IF (DENOMA			00000
1750 WRITE(15.50)EST, MILL 50 FORMAT(//T14, T1/E SOFTWARE FSTIMATE 1S.'.F6.2,A2)	1750 WETTE(5,50)EST, MILL 50 FORMAT(//T14, THE SOFTARE ESTIMATE IS '.F6.2,A2) CALL GETHW REWIND 7 IF(DENOM2 E0. THOU)DECST-REVEST/1000. IF(DENOM3 E0. THOU)PECST-REVEST/1000. IF(DENOM3 E0. THOU)PECST-REVEST/1000. IF(DENOM3 E0. THOU)PENOM3-MILL IF(DENOM3 E0. THOU)PENOM3-MILL IF(DENOM3 E0. THOU)PENOM3-MILL			00000
PROFITE(S. SO)EST. MILL  WRITE(10.50)EST. MILL  SOFOWAT(.) (1744. THE SOFTWARE ESTIMATE 1S. '. FG. 2, A2)  SOFOWAT(.) (1744. THE SOFTWARE TOTALS */  CALL GETHW  REWIND 7  A CALCULATE AIR FORCE COST */  IF (DENOMA? EQ. THOU) IDENOM2-MILL  IF (DENOMA? EQ. THOU) IDENOM2-MILL  IF (DENOMA? EQ. THOU) IDENOM3-MILL  IF (DENOMA? EQ. THOU) INTO, STANDOST (1000)  IF (DENOMA? EQ. THOU) INTO, STANDOST (1000)	PRO WRITE(5,50)EST,MILL WRITE(10,50)EST,MILL SO FORMAT(//14, 'TIE SOFTARE ESTIMATE 1S.', F6.2,A2) /* GET HARDWARE TOTALS */ CALL GETHA REWIND 7 /* CALCULATE AIR FORCE COST */ IF (DENOM2 E0. THOU) DENOM2-HILL IF (DENOM2 E0. THOU) DENOM2-HILL IF (DENOM3 E0. THOU) PROSEST FRONCST (1000) IF (DENOM3 E0. THOU) PROSEST (1000) IF (DENOM3 E0. THOU) PROSEST (1000)		*************	10000
WRITE(10.50)EST.MILL  50 FORMAT(//T14./THE SOFTWARE ESTIMATE 1S.'.F6.2,A2)  CALL GETHW  REWIND 7  CALCULATE AIR FORCE COST */  IF (DENOM2. E0. THOU)DEVCST** DEVCST/1000.  IF (DENOM2. E0. THOU)PRICST** PROFILE  IF (DENOM3. E0. THOU)PROFILE  IF (DENOM3. E0. THOU)	WRITE(10.50)EST MILL 50 FORMAT(//T14. THE SOFTWARE ESTHMATE 1S. '.FG.2,A2) (ALL GETHW REWIND 7 CALL GET HARDWARE TOTALS */ FEWIND 7 CALL GETHW REWIND 7 CALLULATE AIR FORCE COST */ IF (DENOMA2 E0. THOU)DEMOM2*MILL IF (DENOMA2 E0. THOU)DEMOM2*MILL IF (DENOMA3 E0. THOU)PEMOM3*MILL	1250 WRITE(S. SO)EST MILL		00000
SO FORMAT(//TIME SOFTWARE FSTIMATE IS.'.FG.2.A2)  CALL GETHW REWIND 7  ACALCULATE AIR FORCE COST */ IF (DENOMA) 2 EQ. THOU NOW CYSTIMATE IF (DENOMA) 2 EQ. THOU NOW CYSTIME IF (DENOMA) 3 EQ. T	SO FORMATI(//TIA.THE SOFTWARE FSTIMATE IS.'.F6.2,A2)  CALL GETHW REWIND 7  FCENDAR 2  IF (DENOM2 E0. THOU) DEVCST-NEVCST/1000  IF (DENOM3 E0. THOU) PROM3-MILL  IF (DENOM3 E0. THOU) PROM3-MILL  IF (DENOM3 E0. THOU) PROM3-MILL	THE LOS CO SELECT		00000
CALL GETHW REWIND 7  FEWIND 7  FEWIND 7  FORECOME E0. THOU DEVEST-NEVEST/1000. FORENDMS E0. THOU DEVEST-NEVEST/1000. FORENDMS E0. THOU DEVEST-NEVEST/1000. FORENDMS E0. THOU PROCST-PROFST/1000 FFORENDMS E0. THOU PROCST-PROFST/1000	CALL GETHA REWIND 7 CALCULATE AIR FORCE COST */  IF (DENOM2 EQ. THOU) DEVCST-TOEVCST/ 1000.  IF (DENOM2 EQ. THOU) DEVCST-TOEVCST/ 1000.  IF (DENOM2 EQ. THOU) DEVCST-TOEVCST/ 1000.  IF (DENOM3 EQ. THOU) PROCST-THOUST/ 1000.  IF (DENOM3 EQ. THOU) PROCST-THOUST/ 1000.	CO FORMATÍ//TITE SOFT	2	0000
CALL GETHW REWIND 7  A CALCULATE AIR FORCE COST */ IF (DENOM2 .E0 .THOU) DEVCST*NEVCST/1000. IF (DENOM3 .E0 .THOU) DENCST*NEVCST/1000. IF (DENOM3 .E0 .THOU) PROCST*NEVCST/1000 IF (DENOM3 .E0 .THOU) DENCST*NEVCST/1000 IF (DENOM3 .E0 .THOU) DENCST*NEVCST/1000	CALL GETHW REWIND 7 CALCULATE AIR FORCE COST */ IF (DENOM2 EQ. THOU) DEVCST*-DEVCST/ 1000. IF (DENOM2 EQ. THOU) DEVCST*-DEVCST/ 1000. IF (DEROM3 EQ. THOU) PROCST*-PROCST/ 1000 IF (DEROM3 EQ. THOU) PROM3-MILL	•		90000
REWIND 7  A CALCULATE AIR FORCE COST */  IF (DENOM2. EQ. THOU) DENOM2.****  IF (DENOM2. EQ. THOU) DENOM2.**********  IF (DENOM3. EQ. THOU) PROM3.************************************	REWIND 7 /* CALCULATE AIR FORCE COST */ IF (DENOMA: EQ. THOU) DEVOST-WILL IF (DENOMA: EQ. THOU) DEMOMS-WILL IF (DENOMA: EQ. THOU) PROCST-PROCST/1000 IF (DENOMA: EQ. THOU) PROCST-PROCST/1000	CALL OF THE		00000
/* CALCULATE AIR FORCE COST */ IF (DENDMA: EQ. THOU)DEVCST-TRVCST/1000. IF (DENDMA: EQ. THOU)DEVCST-TRVCST/1000. IF (DENDMA: EQ. THOU)PENCST-FROST/1000 IF (DENDMA: EQ. THOU)PENCST-FROST/1000	/* CALCULATE AIR FORCE COST */ IF (DENDAR 2 EQ. THOUD DEVCST-TOEVCST/1000. IF (DENDAR 2 EV. THOUD DEVCHORD ** AILL IF (DENDAR 2 EV. THOUD DENDAR 2 FOR THOUD THOUS ** THOUS ** THOUD THOUS ** THOUS ** THOUD THOUGHT ** THOUD THOUGHT ** TH			90000
IF (DENOM2 EQ. THOU) DEVCST-DEVCST/1000. IF (DENOM2 EQ. THOU) DEVCST-DEVCST/1000. IF (DENOM2 EQ. THOU) PROCST-PROCST/1000 IF (DENOM3 EQ. THY) DENOM3-MILL	IF (DENOMA) EQ. THOU) DEVCST-DEVCST/1000.  IF (DENOMA) EQ. THOU) DEMOM-MILL  IF (DENOMA) EQ. THOU) PROCST-PROCST/1000  IF (DENOMA) EQ. THOU) PROMS-MILL	/ CALCULATE		00000
DENOMA: E0. THOU IDENOM2-MILL DENOMA: E0. THOU IDENOM3-MILL DENOMA: E0. THOU IDENOM3-MILL	DENDMS .EO. THOUJDENOM2-MILL DENDMS .EO. THOUJPROKST-PROEST/1000 DENDMS .EO. THOUJDENOM3-MILL	1F (DENOM2 EQ.	VCST+DEVC\$T/1000.	00000
.EQ. THOUJPROCST-PROCST/1000 .EQ. THOUJDENOM3-MILL	. EQ. THOU JPROCST-PROCST/1000 . EQ. THOU JPROONS-MILL	DENDM2 . EO.	WOM2 + MILL	90000
. EQ. THRUJDENDM3-MILL	.EQ. THIND DENDMO-MILL	60	DCS1-PB0:S1/1000	00000
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	i	
HMCOST - DEV	HECOST - DEVCST + PROCST	00000540
W)= (CO) + (		
	STANDER DEMAND	
WRITE( 10.	WEITE (10, 62) HACOST, DEMONS	000000
62 FORMAT(T14	4. THE TOTAL MARDWARE CONFIGURATION COST IS: 'FR. 2, A7)	000000
	O)AFCOST, DENOM2	00000000
	70)AFCOST, DENOM2	000000
70 FORMAT(/19. '**THE	9. *** THE AIR FORCE MODEL COST ESTIMATE 15. ', FB. 1. A2)	000000
		000000
	0	00000640
2000 STOP		06900000
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:		0/90000
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· MOCT TON	SAVE VARIOUS	0690000
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	COST MODEL RUN.	00000110
	SOFTWARE ESTIMATES	00000120
		00000130
C DESCRIPTION :		00000140
C		00000150
SUBSOUT IN	MOUTINE SWEST	
DIMENSION	DIMENSION COUNT(50), VALUE(50), COMENT(50,6), DATE(50,3), TITLE(1.19)	٠.
-	LIME(2.19)	-
COMMON FLA	10,83	000000
MEAL-4 VAL	106.657	0000000
INTEGER-4	COMENT, DATE, SUM, COUNT, TITLE, ANS, INPUT, A.R.E.C. FLAG, ON.	000000
-	3211'4.E	00000820
	/,C/,C,/,M/,M/,L/,E/,E,/,OM/, 1,/,OFF/,O/	050000
<b>.</b>		000000
_		05800000
(21) L MAN 2		000000
TENDO TO		
01/) L 40000 A		0000000
20 14 1-1.2		01 600000
READ(B.	READ(8, 12)(LINE(1, J), J=1, 19)	000000
12 FURNAT	1946)	0000000
WRITE(S.	WRITE(5,12)(LINE(1,J),J-1,19)	00000040
14 CONTINUE		000000420
DO 32 1-1, SUR	表ので	09600000
READ(8.2	#EAD(8.22)COUNT(1).VALUE(1).(COMENT(1,J).J=1.6).	000000
_	(DATE(1,J),J+1,3)	08600000
22 FORMAT(1	74,12,77,F8.2,723,644,734,344)	06600000
WRITE(S.	. 22)COUNT(1), VALUE(1). (COMENT(1, J), J. 1.6).	0000
-	(DATE(1.0), J+1,3)	00001010
32 CONTINUE		00001050
U		0000000
	3)	00001040
52 FORMAT(/'	FORMAT(/'WOULD YOU LIKE TO ''	00001050
-	A)DO A NEW SOFTWARE ESTIMATE".	0000 1000
rv (	C)HOOSE AN OLD ONE	0/01000
, .	FIUM COST MODEL",/	
•	F (X11.)	
SALCE ROLLING	SAL	01110000
62 FORMAT(A2)		00001120
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DIMENSION TITLE (1, 20), STAR(1, 20), TEXT(1, 20), LINE (1, 20)
COMMON FLAG, EST, DECCST, DENCHY, DENCHY
INTEGER SUM, TITLE, STAR, LINE, TEXT
                                                                                                                                                                                                                                                                               SUBROUTINE : GETHW
FUNCTION : REFRIEVES DEVELOPMENT AND PRODUCTION
HARDWARE TOTALS FOR A PARTICULAR HARDWARE
LIST.
                                       COUNT(K).K
WRITE(5.72)
                                                                                                                                                                                                         WRITE(8,128)SUM
FORMATI(12)
DO 137 1=1,3
WRITE(8,122)(TITLE(1,J),J-1,19)
WRITE(8,122)(TITLE(1,J),J-1,19)
FORMAT(1944)
                                                                                                    WHITE(5.92)
92 FORMAT(* ENTER COMMENTS:')
READ(5.102)(COMENT(K.J), J-1.6)
102 FORMAT(644)
WRITE(5,112)
112 FORMAT(* ENTER DATE:')
READ(5.122)
122 FORMAT(344)
                                                                                                                                                                                                                                                                                                                                                                IF (ANS FO. E)GO TO 3000
                                                                                                                                                                                                                                                                                                                                                                                                                    EST-VALUE(1)
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DESCRIPTION
                     SUM - SUM + 1
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137 CONTINUE
DO 152 Ke
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3000 FLAG-DM
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READ(7.4)SUM.TITLE.STAR
4 FORMAT(12/204/204)
DD 24 1-1, SUM
DD 24

MINOULE   TERCON   TOTAL HARDWARE   TOTAL HARDWARE   TOTAL HARDWARE   TOTAL HARDWARE   TOTAL HARDWARE   STIMATE   ST	C THE SENTINEL BRIGHT COST MODELS PROGRAM	5000000
######################################	CATHERINE M. MARCH 19	0000000
TINGUIDA : RINNS TERCON COST MODEL FOR SPECIFIC HARDWARE CONFIDENCINO SOSTWARE ESTIMATE INPUTS: TOTAL HARDWARE DEVELOWENT AND PRODUCTION COSTS. SOSTWARE ESTIMATE OUTPUTS: COST CALCULATIONS TO SPECIFIED OUTPUT FILE DIMENSION TILLE(1, 23), NOT25), STEP 25, 23), OATE(1, 5) COMMON FLAG, EST CALCULATIONS TO SPECIFIED OUTPUT FILE DIMENSION TILLE(1, 23), NOT25), STEP 25, 23), OATE(1, 5) COMMON FLAG, EST CALCULATIONS TO SPECIFIED OUTPUT FILE DIMENSION TILLE(1, 23), NOT25), STEP 25, OATE(1, 5) COMMON STEP, SUM, DEMONS, DEMONS, THOUSHILL, FLAG, ON, OFF CASE CASE-OA TRADEG DOTTILLE(1, 3), OA-1, 23) OF FRADEG D	MOSIL F. TROUM	00000010
IMPUTS : 10714   MARCHE   MA	FUNCTION - BING TERCON COST MODEL FOR SPECIFIC	
INPUTS   TOTAL HARDARE DEVELOWENT AND PRODUCTION COSTS, OUTPUTS   COST CALCULATIONS TO SPECIFIED OUTPUTF TIE	CONFIGURATION AND SOFTWARF ESTIMATE	400000
SGFTARE ESTIMATES  DUIPUTS : COST CALCULATIONS 10 SPECIFIED OUTPUT FILE  COMMON THEEL 33) NOTES, 33) LORE (1.5)  COMMON THEEL 33) NOTES, 33) LORE (1.5)  COMMON TAGER NO. STEP. SUM, DENOM THOU MILL, FLAG, DN. OFF. CASE.  DATA THOU/W.Y. MILL/W.Y. DN/ 1.7, OFF/O/  CASE OF THOU THOU THOU THOU THOU THOU THOU THOU	INPUTS TOTAL HARDWARF DEVELOPMENT	00000
DIMENSION TITLE(1.23) NO(25).STEP(25.23).DATE(1.5)  COMMON TITLE(1.23) NO(25).STEP(25.23).DATE(1.5)  COMMON TITLE(1.23) NO(25).STEP(25.23).DATE(1.5)  COMMON TITLE(1.23) NO(25).STEP(25.23).DATE(1.5)  INTEGER NO.STEP(25.24) OFFORMS.DENOMS.DENOMS.DENOMS  INTEGER NO.STEP(25.24)  OATA THOUV.K./.MILL/W./.DN/T1/.OTF/O//  FLAG-0F  READ(9.10)SUM  OFFORMAT(12)  READ(9.20)(TITLE(1.4).J-1.23)  OFFORMAT(23.3)  OFFORMAT(23.3)  OO OF 1.5(1)  OO OAL SECOND  INTEGER SO)(STEP(1.4).J-1.23)  OO OAL SECOND  INTEGER SO)(STEP(1.4).J-1.23)  OO OAL SECOND  INTEGER SO)(STEP(1.4).J-1.23)  OO OAL SECOND  INTEGER SO ON SO OO SOO  INTEGER SO ON SOO  INTEGER SOO ON SOO ON SOO  INTEGER SOO ON SOO  INTEGER SOO ON SOO ON SOO  INTEGER SOO ON SOO ON SOO  INTEGER SOO ON SOO ON SOO ON SOO  INTEGER SOO ON SOO	SOFTWARE ESTIMATES	000000
DIMENSION TITLE(1.23) NO(25), STEP (25, 23), OATE(1, 5)  COMMON FLAG, EST, DEVCST, DROCST, DTNOM2, DENOM3  INTEGER NO, STEP, SUM, DENOM2, DENOM3, THOU, MILL, FLAG, ON, OFF, CASE, DATE THOU, MILL, MI	DUTPUTS : COST CALCULATIONS TO	00000
DIMENSION TITEE(1, 23), MO(23), STEP125, 23) DATE(1, 5)  COMMON FILEGEST DEVEST PROCEST, DENOMAL DENOMAL INTEGER NO, STEPS SIM, DENOMAL DENOMAL INTEGER NO, STEPS SIM, DENOMAL DENOMAL INTEGER NO, STEPS SIM, DENOMAL SERVING		000000
COMMON FLAG. EST. OFFOST, DENOM2. DENOM2 INTEGER NO. STEP. SUM. DENOM2. DENOM3. THOU. MILL. FLAG. ON. OFF. CASE.  REAL-4 DEVCST PROCST. EST. TERCST. MACOST  FLAG-OFF  CASE-0  READ(9. 10) SUM  IO FORMATIC(12)  READ(9. 20) (TITLE(1. J) . J-1. 23)  OFFORMATIC(23A3)  WRITE(5. 20) (TITLE(1. J) . J-1. 23)  OFFORMATIC(23A3)  WRITE(5. 20) (STEP(1. J) . J-1. 23)  OFFORMATIC(3A3)  WRITE(5. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE(1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 49) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 40) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 40) (DATE (1. J) . J-1. 5) . CASE  WRITE(6. 40) (DATE	DIMENSION TITLE(1, 23), NO(25), STEP(25, 23), DATE(1, 5)	06000000
INTEGER NO, STEP, SUM, DENOM2, DENOM3, THOU, MILL, FLAG, DN, OFF, CASE.     INTEGER NO, STEP, SUM, DENOM3, THOU, MILL, FLAG, DN, OFF, CASE.     DATE THOU'NE', MILL' 'ME', DN/' 11', OFF/'O'     FLAG-DES TEST TERCST, HACOST     FLAG-DES TO	COMMON FLAG. EST. DEVCST. PROCST, DENOM2. DENOM3	000000100
	INTEGER NO.STEP, SUM, DENOM2, DENOM3, THOU, MILL, FLAG, ON, OFF, CASE,	00000110
REACH & DEVCST, PROCSI, EST, IFRCSI, HWICHST  DATA THOU/YEY, WILL/YWY, DW/11/, OFF/YO'  FLAG-OF  CASE-O  READ(9, 20) (TITLE(1, J), J-1, 23)  OFDMANT(23A)  READ(9, 20) (TITLE(1, J), J-1, 23)  OFDMANT(23A)  OF OFF AND (1, J), J-1, 23)  OF OFF AND (1, J), J-1, 23)  OFF AND (1, J, J-1, 23)  OFF AND (1, J-1, 23)  OFF AN	1 DATE	00000120
PEAD(9, 10) SUM  PEAD(9, 10) SUM  PEAD(9, 10) SUM  PEAD(9, 10) SUM  PEAD(9, 20) (TITLE(1, J), J-1, 23)  PO AD (1-1, 24)  PO A	REAL +4 DEVCST, PROCST, EST, TERCST, HWCDST	00000
CASE + O	DATA TEOUVEY SILLY ON VOTA OF THE CONTRACT OF	00000
PREADIS, 10) SUM		00000
PERD(9, 10) SUM	0.43E40	00000
10 FORMAT (12)  READ (9, 20) (TITLE (1, J), J-1, 23)  OF CORMAT (12)  WHITE (9, 20) (TITLE (1, J), J-1, 23)  OF CORMAT (23, 23)  OF CORMAT (24, 24)  OF CORMAT (24, 25)  OF CORMAT (24, 25	THE PERSON MODEL	00000
20 FEAD 9-30 (171 LE (1. J) . J - 1. 23) 20 FORMAT (233) 20 FORMAT (233) 20 FORMAT (233) 20 FAST (233) 20 FAST (233) 30 FEAD (9-30) (STEP (1. J) . J - 1. 21) 30 FEAD (9-30) (STEP (1. J) . J - 1. 21) 40 CONTINUE / GET SOFTWARE FSTIMATE // 42 FORMAT (// EAG FO DA) GO TO 1200 48 FORMAT (// EAG FO TO 1200 49 FORMAT (// T30, CASE // I3 // EAG FO TO 1200 49 FORMAT (// T30, CASE // I3 // EAG FORMAT (// T30, T30, CASE // T	-	00000
20 FORMAT (2023) WRITE (5.20) (TITLE(1.J), Jul. 23) 00 40 [1-1.518] READ(9.30) (STEP(1.J), Jul. 27) 30 FORMAT (23.2) 40 CONTINUE FORMAT (23.2) 40 CONTINUE FORMAT (23.2) 40 CONTINUE FORMAT (23.2) 40 FORMAT (23.2) 41 FORMAT (23.2) 42 FORMAT (23.2) 43 FORMAT (23.2) 44 FORMAT (23.2) 45 FORMAT (23.2) 46 FORMAT (23.2) 47 FORMAT (23.2) 48 FORMAT (23.2) 49 FORMAT (23.2) 49 FORMAT (23.2) 40 FORMAT (23.2) 40 FORMAT (23.2) 40 FORMAT (23.2) 41 FORMAT (23.2) 42 FORMAT (23.2) 43 FORMAT (23.2) 44 FORMAT (23.2) 45 FORMAT (23.2) 47 FORMAT (23.2) 48 FORMAT (23.2) 49 FORMAT (23.2) 40 FORMAT (23.2) 41 FORMAT (23.2) 42 FORMAT (23.2) 43 FORMAT (23.2) 44 FORMAT (23.2) 45 FORMAT (23.2) 45 FORMAT (23.2) 47 FORMAT (23.2) 48 FORMAT (23.2) 48 FORMAT (23.2) 49 FORMAT (23.2) 49 FORMAT (23.2) 40 FORMAT (23.2) 40 FORMAT (23.2) 41 FORMAT (23.2) 41 FORMAT (23.2) 41 FORMAT (23.2) 41 FORMAT (23.2) 42 FORMAT (23.2) 43 FORMAT (23.2) 44 FORMAT (23.2) 45 FORMAT (23.2) 47 FORMAT (23.2) 48 FORMAT (23.2) 48 FORMAT (23.2) 49 FORMAT (23.2) 49 FORMAT (23.2) 49 FORMAT (23.2) 40 FORMAT (23.2) 40 FORMAT (23.2) 41 FORMAT (23.2		00000
WRITE(S.30)(TITLE(1.J), J.1.23)		00000
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0 CONTINUE (CONTINUE CONTINUE)  40 CONTINUE (CONTINUE CONTINUE)  40 CONTINUE (CONTINUE CONTINUE)  40 CONTINUE (CONTINUE)  40 CONTINUE (CONTINUE)  41 FELAGE EO ON GOT 10 2000  11 FELAGE EO ON GOT 10 2000  12 FELAGE EO TO 10 2000  13 FELAGE EO ON GOT 10 2000  14 FORMATI(CASE EO TO 10 2000  15 FELAGE EO ON GOT 10 2000  17 FELAGE EO ON GOT 10 2000  18 FELAGE E AN FELAGE EO ON GOT 10 2000  17 FELAGE EO ON GOT 10 2000  17 FELAGE EO ON GOT 10 2000  18 FELAGE EO ON GOT 10 2000  18 FELAGE EN EO ON GOT 10 2000  18 FELAGE EO ON GOT 2000  18 FELAGE EO EO ON GOT 2000  18 FELAGE EO ON GOT 2000  18 FELAGE EO EO EO ON GOT 2000  18 FELAGE EO EO EO EO ON GOT 2000  18 FELAGE EO	20 10 10 10 10 10 10 10 10 10 10 10 10 10	00000
90 FEBRURA (23.4) 90 WETTE(5.30) (STEP(1.J). Jul. 23) 40 CONTINUE 600 CALL SWEST 600 CALL SWEST 61 CASE CAST 1 (CASE 0. DN) GD TO 2000 1 F(CASE 0. T) 100 TO 1200 WRITE(5.48) 45 FORMAT(6.48) 45 FORMAT(6.48) 46 FORMAT(7.10). Jul. 5). CASE WRITE(5.48) 47 FORMAT(6.48) 48 FORMAT(7.10). Jul. 5). CASE WRITE(5.48) 48 FORMAT(7.10). Jul. 5). CASE WRITE(5.48) 49 FORMAT(7.11). Jul. 5). CASE WRITE(5.48) 40 FORMAT(7.11). Jul. 5). CASE 40 FORMAT(7.11). Jul. 5). CASE 41 FORMAT(7.11). Jul. 5). CASE 42 FORMAT(7.11). Jul. 5). CASE 43 FORMAT(7.11). THE SOFTWARE ESTIMATE 1S. F6 2.A2) 45 FORMAT(7.11). THE SOFTWARE ESTIMATE 1S. F6 2.A2) 46 FORMAT(7.11). THE SOFTWARE ESTIMATE 1S. F6 2.A2) 47 FORMAT(7.11). THE SOFTWARE FOR COST 48 FORMAT(7.11). THE SOFTWARE FOR COST 49 FORMAT(7.11). THE SOFTWARE FOR COST 40 FORMAT(7.11). THE SOFTWARE FOR COST 41 FORMAT SOFTWARE FOR COST 41	: :	00000
40 CONTINUE  40 CONTINUE  4 GET SOFTWARE ESTIMATE  CASECASE+  CASECASE+  CASECASE+  TEREAGE GT 15G TO 1200  FF(ELAG E G TO 1200  FF(ELAG E	N CONTRACTOR	200000
40 CONTINUE  C GET SOFTWARE FSTIMATE */  CASE-CASE**  IF (FLAG - EO, DN) GO TO 2000  IF (CASE - GT + 1) GO TO 12000  IF (CASE - GT + 1) GO TO 12000  IF (CASE - GT + 1) GO TO 12000  IF (CASE - GT + 1) GO TO 12000  IF (CASE - GT + 1) GO TO 12000  IF (CASE - GT + 1) GO TO 12000  IF (CASE - GT + 1) GO TO 1200  GO TO 1200  WRITE (10, 48) (DATE (1, J), John S), CASE  WRITE (10, 48) (DATE (1, J), John S), CASE  WRITE (10, 48) (DATE (1, J), John S), CASE  WRITE (10, 48) (DATE (1, J), John S), CASE  WRITE (10, 48) (DATE (1, J), John S), CASE  WRITE (10, 48) (CASE - LI)  GO TO 1250  WRITE (10, 48) (CASE - LI)  WRITE (10, 50) EST, MILL  WRITE (1		00000
1000 CALL SWEST  1000 CASE CASE  1000 CASE  1	٤	00000
COC CALL SWEST   CASECASE+1     CA	/ GET CRETERADE ECTIMATE	
CASE-CASE+1  CASE-CASE+1  IF (CASE G. DN)GD TO 2000  IF (CASE G. T. +100 TO 10 10 10  IF (CASE G. T. +100 TO 10 10  READ(S, 47) [OATE (1, 47), 4-1, 5), CASE  WRITE (S, 48) (DATE (1, 47), 4-1, 5), CASE  WRITE (S, 48) (DATE (1, 47), 4-1, 5), CASE  WRITE (S, 48) (DATE (1, 47), 4-1, 5), CASE  WRITE (S, 48) (DATE (1, 47), 4-1, 5), CASE  WRITE (S, 48) (DATE (1, 47), 4-1, 5), CASE  WRITE (S, 48) (CASE (1, 17), 4-1, 5), CASE  WRITE (S, 49) (CASE  WRITE (	COO CALL SWEST	
	CASE	000000
	. AG . EO. DN) GO TO	00000310
## FORMAT(* ENTER TODAY ''S DATE ')  ## FORMAT(* ENTER TODAY ''S DATE ')  ## FORMAT(* ENTER 1, J) , Join 'S ). CASE  ## FORMAT(* AB) (DATE(1, J) , Join 'S ). CASE  ## FORMAT(* AB) (DATE(1, J) , Join 'S ). CASE  ## FORMAT(* AB) (DATE(1, J) , Join 'S ). CASE  ## FORMAT(* AB) (DATE(1, J) , Join 'S ). CASE  ## FORMAT(* AB)  ## FORMAT(* AB)  ## FORMAT(* A	5	00000320
45 FORMAT(' ENTER TODAY'S DATE') 47 FORMAT('A4) 49 FORMAT('A4) 40 FORMAT('A4) 40 FORMAT('A4) 40 FORMAT('A7) 41		00000330
READDS,47)(DATE(1,J),J-1,5), CASE WRITE(5,48)(DATE(1,J),J-1,5), CASE WRITE(5,48)(DATE(1,J),J-1,5), CASE AB (DOMAT(//T30,5A4,//T3, CASE, 13,  CO TO 1250 WRITE(5,49)CASE WRITE(5,49)CASE WRITE(5,49)CASE AP (DOMAT(//T3, CASE, 13,  CALC GETHW REWIND 7  CALC GETHW REWIND 7  IF (DENOMA 2, EO, THOU)DEVCST-DEVCST/COO,  IF (DENOMA 3, EO, THOU)DEVCST/COO,  IF (DENOMA 3, EO, THOU)DEVCST/COO,  IF (DENOMA 3, EO, THOU)DEVCS		00000340
## FE (5.48) (DATE (1.J), July 5), CASE ## FORMAT (1/730, SA4.///73, CASE '.13.  GO TO 1350 1200 WRITE (1.49) CASE '.13.  1250 WRITE (1.49) CASE '.13.  FORMAT (1/73, CASE '.13.  FORMAT (1/73, CASE '.13.  FORMAT (1/73, TASE '.13.  CALL GETHW  REWIND 7  CALL GETHW  REWIND 7  FOR CONDITION CONTROL CONTRO		000003
WRITE(15,48)(DATE(1,U),U-1,5),CASE  WRITE(15,48)(DATE(1,U),U-1,5),CASE  48 FORMAT(///T30,SA4,///T3,CASE,13,  1200 WRITE(10,49)CASE  WRITE(10,49)CASE  49 FORMAT(//T3,CASE,13,  WRITE(5,49)CASE  49 FORMAT(//T3,CASE,13,  WRITE(10,50)EST,MILL  50 FORMAT(//T15,THE SOFTWARE ESTIMATE IS '.FG 2.A2)  CALL GETHW  REWIND 7  IF (DENOM2 RO THOU)DEVCST-DEVCST/1000  IF (DENOM2 RO THOU)DEVCST-DEVCST/1000  IF (DENOM3 RO THOU)DEVCST-DEVCST/1000  IF (DENOM3 RO THOU)DEVCST-MILL	FORMAT (SA4)	000003
## ## ## ## ## ## ## ## ## ## ## ## ##	WALTER (U. 400 ) COASE	00000
CONTINUED   CASE   CA	PARTIES TO ABOUT DATE (1, 0), C+1, 5), CASE	100000
00 T0 1250   1		
1200 WRITE(5.49)CASE WRITE(5.49)CASE 4 FORMAT(//13, 'CASE', 13, ' 1250 WRITE(5.50)EST, MILL 50 FORMAT(//T15, 'THE SOFTWARE ESTIMATE IS ', F6 2, A2) CALL GETHW REWIND 7 FEWIND 7 FEW		COCK
WFITE(9.49)GASE  49 FORMAT(//T3, CASE', 13, 1250 WRITE(15, 50)EST WILL  WRITE(10, 50)EST WILL  50 FORMAT(//T15, THE SOFTWARE ESTIMATE 1S ', F6 2.A2)  CALL GETHW  REWIND 7  CALCULATE TERCON CDST */  IF (DENOM2 : EO. THOU) DENOM9 - MILL  IF (DENOM3 : EO. THOU) DENOM9 - MILL  IF (DENOM3 : EO. THOU) DENOM9 - MILL  IF (DENOM3 : EO. THOU) DENOM5 - MILL  IF (DENOM5 : EO. THOU) D		
49 FORMAT(//T3,'CASE',13,' 1250 WRITE(\$,50)EST,MILL WRITE(10,50)EST,MILL 50 FORMAT(//T15,'THE SOFTWARE ESTIMATE IS ',F6 2,A2) CALL GETHW REWIND 7		200000
1250 WRITE(5, 50)EST, MILL 50 FORMAT(//T15, THE SOFTWARE ESTIMATE IS '. F6 2.A2) CALL GETHW REWIND 7 IF (DENOM2 . E0 . THOU)DEVCST-DEVCST/COO. IF (DENOM3 . E0 . THOU)PROCST-PRILL IF (DENOM3 . E0 . THOU)PROM3-MILL	FORMAT(//13, 'CASE', 13, '	000003
WRITE(15,50)EST MILL WRITE(10,50)EST,MILL 50 FORMAT(17,115, THE SOFTWARE ESTIMATE 15 ', F6 2, A2) CALL GETHW REWIND 7 '< ALCULATE TERCON (757 */ IF (DENOM2 : EO. THOU) DENOM9 - MILL IF (DENOM3 : EO. THOU) DENOM5 - MILL IF (DENOM3 : EO. THOU) DENOM5 - MILL		000003
WRITE(10,50)EST,MILL 50 FORMAT(//T15, THE SOFTWARE ESTIMATE IS ', F6 2, A2) (A GET HARDWARE FUTALS */ CALL GETHW REWIND 7 (CALL GETHW REWIND 7 (CALCULATE TERCON CDST */ IF (DENOM2 EQ. THOU)DEVCST-DEVCST/1000 IF (DENOM2 EQ. THOU)PROM2-MILL IF (DENOM3 EQ. THOU)PROM3-MILL IF (DENOM3 EQ. THOU)PROM3-MILL	WRITE(5, 50)EST, WILL	00000
SO FORMAT (//TIS,THE SOFTWARE ESTIMATE IS '.F6 2.A2)  CALL GETHW REWIND 7  IF (DENOM2 .EO . THOU) DE VCST-DE VCST */ IF (DENOM2 .EO . THOU) PROCKST-DE VCST / OCO .  IF (DENOM3 .EO . THOU) PROCKST-DE VCST / OCO .  IF (DENOM3 .EO . THOU) PROCKST / OCO .  IF (DENOM3 .EO . THOU) PROCKST / OCO .  IF (DENOM3 .EO . THOU) PROCKST / OCO .	_	00000
/* GET HARDWARE 101ALS */ CALL GETHA REWIND 7 /* CALCULATE TERCON COST */ IF (DENOM2 EQ. THOU) DEVCST-DEVCST/1000. IF (DENOM3 E. THOU) DEVCST-DEVCST/1000. IF (DENOM3 E. THOU) PROCST-PROCST/1000. IF (DENOM3 E. THOU) PROCST-PROCST/1000.	FORMAT(//TIS, THE SOFTWARE ESTIMATE IS . F.6	00000410
CALL GETHW REWIND 7 CALCULATE TERCON CDST */ IF(DENDM2 .EQ. 1HOU)DEVCST-DEVCST/1000. IF(DENDM3 .EQ. 1HOU)DEVCST-DEVCST/1000. IF(DENDM3 .EQ. 1HOU)PROCST-PRICST/1000 IF(DENDM3 .EQ. 1HOU)PROCST-PRICST/1000	/ - GET HARDWARE TOTALS ./	00000420
REWIND 7  IF (DENOM2 . EO . THOU)DEVCST-DEVCST +/  IF (DENOM2 . EO . THOU)DEVCST-DEVCST/1000.  IF (DENOM3 . EO . THOU)PROCST-PRILL  IF (DENOM3 . EO . THOU)PROCST-PRILL  IF (DENOM3 . EO . THOU)PROCST-PRILL  IF (DENOM3 . EO . THOU)PROM3-MILL	GE THA	00000430
/* CALCULATE TERCON (DST */ IF(DENDM2 .EQ. THQU)DEVCST-DEVCST/1000. IF(DENDM2 .EQ. THQU)DEVOR3-DEVCST/1000. IF(DENDM3 .EQ. THQU)DEQCST-DERUCST/1000 IF(DENDM3 .EQ. THQU)DEQCST-PERUCST/1000	_	00000440
. EQ. THOU)DEVCSDEVCST/1000. . EQ. THOU)DEVCS-PEVCST/1000. . EQ. THOU)PECCS-PERCST/1000. . EQ. THOU)DEVCS-PERCST/1000	CALCULATE TERCON COST	00000450
. EQ. THOUDREMONS-MILL . EO. THOUDPROCK-PRICST/1000 . EO. THOUDPROMS-MILL	2	000000000
.EQ. THOUTPROCST-PRINCST/1000 .EQ. THOUTDFNOM3-MILL	63	<b>NOONO 4 70</b>
EQ. THOUSDENDM3-MILL	<b>2</b>	COCOUTABL
	2	NACOO41

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| PRESTIGNOST ORNOWS | DESCRIPTION | DESCRIP
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### PEAD(7.4) SUM. TITLE. STAR

# FORMAT(12/204/204)

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J WINCOM	THE SENTINEL BRIGHT COST MODELS PROGRAM CATHERINE M. COLECCHI	9000000
MOON F	Calmerine M. Colectori	
MOON F		80000000
	:	0000000
	SOFTER	0000000
	CREATES FILE IN WHICH TO STORE SOFTWARE ESTIMATES	0000000
INPUTS :		0000000
0017015	OFTWARE ESTIMATES, COMMENTS, DATE TO	00000037
	SPECIFIED FILE	8000000
DIMENSION I	DIMENSION COUNT( 50), VALUE (50), COMENT(50, 6), DATE (50, 3), TITLE (1, 19)	-
WEAL 44 VALUE	CLUE	0900000
	INTEGERTA COMENICONICONICONICONICONICONICONICONICONICO	0/00000
		00000000
	S	
3	OC	
TOTAL STATE		
WEITE (S. 10)		
10 FORMAT(	· ENTER SOFTWARE ESTIMATE IN MILLIONS . '	00000
_	(INCLUDE DECIMAL POINT)")	00000
READ(S.	. 15)VALUE(1)	00000
15 FORMAT(FB		000000110
1F (VALUE(1)	E(1) . Eq. 0.0)60 TO 1000	00000180
WRITE(S, 20)		00000190
20 FORMAT(	FORMAT( ' ENTER COMMENTS: ')	00000500
_	READ(5,30)(COMENT(1,0),0=1,6)	00000210
30 FORMAT(BA2)	642)	00000350
_	(04)	00000530
40 FORMAT	FORMAT( 'ENTER DATE: ')	00000540
WEAU(5.	30)(DATE(1.0), C=1.3)	00000520
AC CONTINUE		00000240
		00000
1000 5188-5188-1		
	MUS (O	000000
70 FORMAT(12)		000000
WRITE(8,75)	_	00000320
75 FORMAT(18.	*** CURRENT	00000330
-	. WILLIONS)	00000335
WAYTE (B		
77 FORMAT (		.) 000000320
	6	00000360
BO FORMAT(T1	FORMAT(T10, 'VALUE', 122, 'COMMENTS', 136, 'OATE')	00000310
DO 100 I-1. SUM	*. SER	00000390
WRITE(8	WRITE(8,90)COUNT(1), VALUE(1), (COMENT(1, J), J-1.6).	00000330
_	(DATE(1, J), J-1, 3)	000000
	74.12,17,F8.2,T23,GA2,T34,3A4)	00000410
OO CONTINUE		00000420
	WRITE(5, 110)	00000430
110 FORMAT( . VI	OUR FILE HAS BEEN SAVED")	00000440
STOP		00000450

# DATE ILMED